Complete 705 Template Search Requested

☐ **RUSH - SPE signature required:** _____

Access DB# _____

Business Methods Case: 705/ ___30_____

Log Number _____

Write in 705 subclass(es) to search required files for 705 cases or cases cross referenced in 705.

Requester's Full Name: Elaine Gort   **Examiner #:** 77459   **Date:** 1/20/04

Art Unit: 3627   **Phone Number** 703/308-6391   **Serial Number:** 9/693565

Bldg & Room #: PK5 7B21   **Results Format Preferred:** PAPER

If more than one search is submitted, please prioritize searches in order of need.

Provide the PALM Bib page or the following:

Title of Invention: see attached bib sheet

Inventors (provide full names): See bib sheet

Earliest Priority Filing Date: 10/20/00

Requested attachments:

- If possible, provide the cover sheet, the IDS, examples, or relevant citations, authors, etc, if known.
- Please attach copies of the parts of this case that help explain or are <u>most pertinent to this search.</u> Examples are: *abstract, background, summary, claim(s) [not all of the claims].*

See particularly claims 10 + 18

The claimed or apparent novelty of the invention is:

A system for armored car pickups of cash register safe assemblies which utilizes a sequence number and an alternate sequence number where the alternate sequence number is updated when there is a pickup and the sequence number is updated at the end of a business day on which the pickup occurred to match the alternate sequence number.

This search should focus on:

(Also include keywords or synonyms)

the above procedure of modifying/updating the sequence numbers

---

```
File 387:The Denver Post 1994-2004/Jan 23
File 471:New York Times Fulltext 90-Day 2004/Jan 26
File 492:Arizona Repub/Phoenix Gaz 19862002/Jan 06
File 494:St LouisPost-Dispatch 1988-2004/Jan 26
File 498:Detroit Free Press 1987-2004/Jan 23
File 631:Boston Globe 1980-2004/Jan 25
File 633:Phil.Inquirer 1983-2004/Jan 25
File 638:Newsday/New York Newsday 1987-2004/Jan 26
File 640:San Francisco Chronicle 1988-2004/Jan 27
File 641:Rocky Mountain News Jun 1989-2004/Jan 24
File 702:Miami Herald 1983-2004/Jan 25
File 703:USA Today 1989-2004/Jan 26
File 704:(Portland)The Oregonian 1989-2004/Jan 26
File 713:Atlanta J/Const. 1989-2004/Jan 25
File 714:(Baltimore) The Sun 1990-2004/Jan 27
File 715:Christian Sci.Mon. 1989-2004/Jan 27
File 725:(Cleveland)Plain Dealer Aug 1991-2004/Jan 18
File 735:St. Petersburg Times 1989- 2004/Jan 25
File 717:The Washington Times Jun 1989-2004/Jan 26
File 743:(New Jersey)The Record 1989-2004/Jan 26
Set     Items    Description
S1          0     BROOKS AND RUSHIE AND DUPLANTI
S2     146448     BROOKS OR RUSHIE OR DUPLANTI
S3     126340     DEPOSIT? ?
S4        813     S2 AND S3
S5     479897     SAFE OR SAFES OR CASH()REGISTER? ?
S6        112     S4 AND S5
S7       7721     (ARMORED OR ARMOURED)()(CAR OR CARS)
S8          1     S6 AND S7 [not relevant]
S9         10     S3(5N)S5(S)S2
S10         9     RD (unique items)
S11         9     S10 NOT S8 [not relevant]


File  34:SciSearch(R) Cited Ref Sci 1990-2004/Jan W3
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
File  65:Inside Conferences 1993-2004/Jan W4
File 202:Info. Sci. & Tech. Abs. 1966-2004/Jan 20
File   2:INSPEC 1969-2004/Jan W3
Set     Items    Description
S1          8     AU='BROOKS WF'
S2         11     AU='BROOKS, W.F.'
S3          8     AU='BROOKS WF'
S4         19     S1:S3
S5         13     RD (unique items) [not relevant]


File 348:EUROPEAN PATENTS 1978-2004/Jan W04
File 349:PCT FULLTEXT 1979-2002/UB=20040122,UT=20040115
Set     Items    Description
S1          1     AU='BROOKS WILLIAM F'
S2          2     AU='RUSHI'
S3          3     S1:S2 [not relevant]


File 350:Derwent WPIX 1963-2004/UD,UM &UP=200406
File 347:JAPIO Oct 1976-2003/Sep(Updated 040105)
File 371:French Patents 1961-2002/BOPI 200209
Set     Items    Description
```

S1   2   AU='BROOKS W F'

1/7/1   (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
013464975   **Image available**
WPI Acc No: 2000-636918/200061
**Cash management system for use in stores, has drop safe with bill validator
to determine denomination of bills and interface panel mounted on its sides**
Patent Assignee: BROOKS ARMORED CAR SERVICES INC (BROO-N)
Inventor: BLUEBELLO J K; **BROOKS W F** ; FRONTINO L J
Number of Countries: 001 **Number** of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 6067530	A	20000523	US 95542984	A	19951013	200061	B

Priority Applications (No Type Date): US 95542984 A 19951013
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6067530	A		28	G06F-017/60	

Abstract (Basic): US 6067530 A
      NOVELTY - A bill validator determines denomination of bills secured
in drop safe during transaction. A controller (36) electronically
coupled to validator and physically separated from drop safe, tracks
information relevant to bills secured in drop safe (24). An interface
panel mounted on the sides of drop safe couples bill validator to
controller. A removable canister secures bills within the drop safe.
      DETAILED DESCRIPTION - A printer is coupled to controller to get a
print out of relevant information of bills secured in drop safe. An
INDEPENDENT CLAIM is also included for cash management method.
      USE - For securing and accounting bills received during transaction
in business establishment such as bank, stores, etc.
      ADVANTAGE - Since redundancy counting of money is performed,
duplicative counting is eliminated and disruption to customer service
is also avoided.
      DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of
cashier's station.
      Drop safe (24)
      Controller (36)
      pp; 28 DwgNo 2B/8
Derwent Class: T01; T05
International Patent Class (Main): G06F-017/60

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File  35:Dissertation Abs Online 1861-2004/Dec
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
File  65:Inside Conferences 1993-2004/Jan W4
File   2:INSPEC 1969-2004/Jan W3
File 233:Internet & Personal Comp. Abs. 1981-2003/Sep
File 474:New York Times Abs 1969-2004/Jan 28
File 475:Wall Street Journal Abs 1973-2004/Jan 28
File  99:Wilson Appl. Sci & Tech Abs 1983-2004/Dec
File 256:SoftBase:Reviews,Companies&Prods. 82-2004/Dec
```

Set	Items	Description
S1	1681383	NUMBER??? OR NUMERAL? ? OR NUMERIC?
S2	642296	SEQUENC??? OR SEQUENT? OR SERIAL? OR CONSECUTIV? OR SUCCES-SION? ? OR SUCCESSIVE? OR SUBSEQUENT OR SUCCEED??? OR SUCCEDENT
S3	2769563	DOUBLE OR PAIR? ? OR SET OR SETS OR SERIES OR GROUP? ?
S4	1211862	ALTERNATE OR DIFFERENT
S5	2595605	TWO
S6	3555554	2
S7	2634510	UPDAT??? OR CHANG??? OR ADVANC??? OR FORWARD??? OR FOLLOW?-??
S8	1496	S2()S1
S9	627	S1()S2
S10	19431	S3(2N)S1
S11	20873	S4(2N)S1
S12	18559	S5(2N)S1
S13	15415	S6(2N)S1
S14	3507	S2(2W)S1
S15	3068	S1(2W)S2
S16	124	S10:S13(3N)S14
S17	103	S10:S13(3N)S15
S18	86	S10:S13(3N)S8:S9
S19	82	RD (unique items)
S20	9	S19/2001:2004
S21	73	S19 NOT S20
S22	**2**	**S7(5N)S21**
S23	18	S7 AND S21
S24	16	S23 NOT S22
S25	**16**	**Sort S24/ALL/PY,A**
S26	38	S16:S17 AND S7
S27	20	S26 NOT S23
S28	20	RD (unique items)
S29	0	S28/2001:2004
S30	**20**	**Sort S28/ALL/PY,A**
S31	248420	SECURITY OR SECURE OR SAFEGUARD??? OR SURETY
S32	342715	PROTECT???
S33	13	S16:S17 AND S31:S32
S34	10	S33 NOT (S23 OR S26)
S35	9	RD (unique items)
S36	2	S35/2001:2004
S37	**7**	**S35 NOT S36**

22/7/1   (Item 1 from file: 2)

DIALOG(R)File   2:INSPEC

00758608   INSPEC Abstract Number: C75011580

 Title: Decimal tabulation and text centering

Author(s): Douglas, G.L.; Haydon, F.C.
Author Affiliation: IBM, Armonk, New York, NY, USA
Journal: IBM Technical Disclosure Bulletin   vol.17, no.9   p.2528
Publication Date: Feb. 1975 Country of Publication: USA
CODEN: IBMTAA ISSN: 0018-8689
Language: English   Document Type: Journal Paper (JP)
Treatment: Practical (P)
Abstract: A unique decimal tabulation (DT) code is entered into the memory of a text processing system preceding a group of numerical textual codes including a decimal point code. When the code sequence is read from the memory for playout or display, the system, upon reading the DT code, scans **forward** through the **group** of **succeeding numerical** codes, accumulating the total print or display escapement of these codes, until the decimal point code is detected. An accumulation of backspace codes equal to the total escapement of the numerical codes is transmitted to the printer or display before the numerical codes are transmitted. The decimal point in the sequence of numerical codes is positioned at the printer or display location immediately preceding the detection of the DT code, to facilitate alignment of decimal points in columns of numerical data. By a similar process, a unique centering code is entered into memory preceding a group of textural codes to be centered. (0 Refs)
Subfile: C

22/7/2   (Item 2 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.
00130973   INSPEC Abstract Number: B70019264
 Title: **Speed regulation in induction machines by pole-** changing **with three** successive numbers **of pole-pairs**
Author(s): Pammer, B.
Journal: Elektrotechnik und Maschinenbau   vol.87, no.1   p.47-51
Publication Date: Jan. 1970 Country of Publication: Austria
CODEN: EKMBA9 ISSN: 0012-8058
Language: German   Document Type: Journal Paper (JP)
Abstract: In this article it is shown that with induction motors with a pole-number change by the increase or reduction between conductors in adjacent slots, the appearance of a torsional angle by induced voltages is possible. The change of torsional angle can be effected by the mutual action of the two currents with different phase relationship in each slot. The practicability of the speed control of induction motors was demonstrated with an experimental machine.
Subfile: B

25/6/1   (Item 1 from file: 2)
00122575   INSPEC Abstract Number: C70007763
 Title: **Analog-to-digital conversion subroutines developed on the PDP-7 under the 9-to-7 retrofit of the** advanced **software system**
Publication Date: 1969

25/6/2   (Item 2 from file: 2)
00392640   INSPEC Abstract Number: B72018984
  Title: **The calculation of matrices characterizing double-circuit three-phase transmission lines**
Publication Date: 1971

25/6/4   (Item 4 from file: 2)

00987775   INSPEC Abstract Number: C76031180
 Title: **Analysis of multicircuit shells of revolution by the field method**
  Publication Date: July-Aug. 1976

  25/6/5   (Item 5 from file: 2)
01441968   INSPEC Abstract Number: A80004906
· Title: **Minimal anomaly-free electroweak model for several generations**
  Publication Date: 1 Sept. 1979

  25/6/6   (Item 6 from file: 2)
01573449   INSPEC Abstract Number: B80047080
   Title: **Asynchronous   two-speed   pole-** changing **motors with three-phase
switch-over winding**
  Publication Date: April 1980

  25/6/8   (Item 8 from file: 2)
02342347   INSPEC Abstract Number: B84060666, C84049444
   Title: **An impulsive noise simulator for the laboratory testing of radio
communication systems**
  Publication Date: 1984

  25/6/12   (Item 12 from file: 35)
01378634   ORDER NO: AAD94-29515
**ASTRONOMICAL FORCING, ANCIENT CLIMATIC   CHANGE   AND THE SEDIMENTARY RECORD:
THE MESOZOIC OF THE SOUTHERN ALPS**
   Year: 1994

  25/6/13   (Item 13 from file: 2)
5239603   INSPEC Abstract Number: A9610-8760M-015, C9605-7330-256
   Title: **Comparison of simulated annealing algorithms for conformal therapy
treatment planning**
  Publication Date: 1 Dec. 1995

  25/6/14   (Item 14 from file: 2)
5976075   INSPEC Abstract Number: A9817-9260S-001
   Title: **Evidence for solar-cycle forcing and secular variation in the
Armagh Observatory temperature record (1844-1992)**
  Publication Date: 27 May 1998

  25/7,K/3   (Item 3 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.
00301697   INSPEC Abstract Number: C71020112
 Title: **Comparison of a** series **of** successive   numbers **predetermined by
a numerical-pulse code**
  Author(s): Polisskii, Yu.D.
  Journal: Mekhanizatsiya i Avtomatizatsiya Proizvodstva   no.3   p.27-9
  Publication Date: 1971 Country of Publication: USSR
  CODEN: MAVPAC   ISSN: 0025-8873
  Language: Russian   Document Type: Journal Paper (JP)
  Treatment: Theoretical (T)
  Abstract: Two algorithms of comparison for selecting the maximum and
minimum of the successively **following** numbers which are recorded in two
registers are analysed. One register features an additive counting input
while the other one includes a subtracting input. On the basis of a
block-diagram of the comparison algorithm for the two types, relationships

for the variables of the corresponding signals in processing the operators
are derived. The logical description of the algorithms indicates that their
efficiency is equal when the comparison is made of numbers recorded in a
system with any arbitrary base.
   Subfile: C
   ...Identifiers: **series** of **successive** **numbers** ;

 25/7,K/7   (Item 7 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.
01862273   INSPEC Abstract Number: C82023096
 Title: **Data** set **usage** sequence   number
 Author(s): Huff, K.L.
 Author Affiliation: IBM Corp., Armonk, NY, USA
 Journal: IBM Technical Disclosure Bulletin   vol.24, no.5   p.2404-6
 Publication Date: Oct. 1981 Country of Publication: USA
 CODEN: IBMTAA ISSN: 0018-8689
 Language: English   Document Type: Journal Paper (JP)
 Treatment: Applications (A); Practical (P)
 Abstract: Describes a method for operating a multi-CPU computing system
such that during reconstruction of a data set from **change** information
recorded on a plurality of system logs, the log data is available for
reconstructing the data set in the same order in which the log data was
created. (0 Refs)
   Subfile: C
   Identifiers: data **set** usage **sequence** **number** ;

 25/7,K/9   (Item 9 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.
02701044   INSPEC Abstract Number: C86040395
 Title: **Programme and data software for system of operational control for**
transport-storage complex in FMS
 Author(s): Mazurov, A.A.
 Journal: Mekhanizatsiya i Avtomatizatsiya Proizvodstva   no.3   p.44-6
 Publication Date: 1986 Country of Publication: USSR
 CODEN: MAVPAC ISSN: 0025-8873
 Language: Russian   Document Type: Journal Paper (JP)
 Treatment: Practical (P)
 Abstract: The data base is used to schedule operations by shift and by
day in a storage and distribution complex. The data base is organised
hierarchically; at the highest level a key is generated designating a
production module, work station and equipment. The key search is
implemented by interrogation and despatch of transport to a work station in
order to implement the work. Interrogation indicates whether a particular
job is complete or still in hand; the data base is constantly **updated**
with the job numbers of work in hand. Consequently, at the lowest level of
the data base structure is a **set** of 'job **numbers** ' and ' **sequence**
 numbers '. At a third level the work in progress and completed is compared
and checked against orders. Within the software the transport system is
represented as a Petri network, which is used to plan work sequences so as
to minimise time spent in tool **changing** or other productivity criteria.
   Subfile: C
(

 25/7,K/10   (Item 10 from file: 35)
DIALOG(R)File   35:Dissertation Abs Online

01107820   ORDER NO: AAD90-14834
SUMMABILITY MATRICES THAT PRESERVE VARIOUS TYPES OF SEQUENTIAL EQUIVALENCE
  Author: MOUSA, MAROUF SAID
  Degree: PH.D.
  Year: 1989
  Corporate Source/Institution: KENT STATE UNIVERSITY (0101)
  Director: JOHN A. FRIDY
  Source: VOLUME 51/01-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
        PAGE 240.   73 PAGES

     In 1980 Pobyvanets introduced the concept of asymptotically regular matrices. Such matrices preserve the asymptotic equivalence of 1two nonnegative **number   sequences** ; that is, if the quotient $x\sb n/y\sb n$ has limit 1 then the quotient $(Ax)\sb n/(Ay)\sb n$ of the transformed sequences also has limit 1. In the asymptotic comparison of two sequences, the term-by-term ratio $x\sb n/y\sb n$ is usually used but the frequent occurrence of terms having zero value makes the term-by-term ratio inapplicable in many cases. Therefore in 1978 Fridy introduced new definitions and notations for comparing rates of convergences in which he avoided most of the difficulties of zero value terms. In this dissertation we give a new proof of Pobyvanets' theorem and we introduce the concept of "asymptotically conservative" to describe a matrix A for which $\lim\sb{n}\ x\sb n/y\sb n$ = 1 implies that $(Ax)\sb n$ = $O(Ay)\sb n$ and $(Ay)\sb n$ = $O(Ax)\sb n$. In doing so we introduce the phrase "mutually dominant" to describe a pair of sequences in which each of the sequences is dominated by a multiple of the other. Among the results proved herein are the **following** : a sufficient condition for a matrix to be asymptotically conservative, several analogues of Pobyvanets' theorem using ratios other than term-by-term, necessary and sufficient conditions for a matrix to preserve the mutually dominant concept and theorems concerning the relationships between various types of sequential equivalence.

 25/7,K/11   (Item 11 from file: 233)
DIALOG(R)File 233:Internet & Personal Comp. Abs.
00297434   92PF12-008
  Exploiting the data fill command
  Conatser, Kelly R
  PC World Lotus Edition , December 1, 1992 , v10 n12 pL39-L40, 2 Page(s)
  ISSN: 0737-8939
  Company Name: Lotus Development
  Product Name: Lotus 1-2-3
  IMPROVING YOUR SKILLS column presents a tutorial on the use of 1-2-3's Data Fill command to enter a group of values that are part of a sequence. The Data Fill command in release 3 can not only fill a sequence of numbers but also a sequence of dates, and the SmartPak add-in for 1-2-3 for Windows 1.1 includes SmartFill, an **advanced** data-entry utility that allows users to avoid the Data Fill command entirely in most cases. Provides step-by-step instructions on using the Data Fill command to create several **sets   of   numerical   sequences** and contrasts the capabilities of the Data Fill command with those of SmartFill. Includes one screen display.(djd)

 25/7,K/15   (Item 15 from file: 2)
DIALOG(R)File   2:INSPEC
6240844   INSPEC Abstract Number: C1999-06-6160D-011

Title: A design and implementation of savepoints and partial rollbacks considering transaction isolation levels of SQL2

Author(s): Sun Hwan Kim; Mi Suk Jung; Jun Hyun Park; Young Chul Park

Author Affiliation: Dept. of Comput. Sci., Kyungpook Nat. Univ., Taegu, South Korea

Conference Title: Proceedings. 6th International Conference on Advanced Systems for Advanced Applications   p.303-12

Editor(s): Chen, A.L.P.; Lochovsky, F.H.

Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA

Publication Date: 1999 Country of Publication: USA   xii+356 pp.

ISBN: 0 7695 0084 6   Material Identity Number: XX-1999-01043

U.S. Copyright Clearance Center Code: 0 7695 0084 6/99/$10.00

Conference Title: Proceedings. 6th International Conference on Database Systems for Advanced Applications

Conference Sponsor: Nat. Tsing Hua Univ.; Nat. Sci. Council; Minstr. Educ.; Inf. Process. Soc. Japan

Conference Date: 19-21 April 1999   Conference Location: Hsinchu, Taiwan

Language: English   Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: A partial rollback of a transaction restores the state of the transaction and the database to the state in which they have been right after the savepoint to be rolled back has been established. The paper considers the correctness of savepoints and partial rollbacks. First, a savepoint sequence number is assigned to each savepoint. According to that, without generating any savepoint log record upon establishing savepoints, all the valid savepoints of a transaction can have **different** savepoint **sequence numbers** and the order of establishment of each valid savepoint can be discriminated efficiently. Second, the lock request entries of the manual duration are not deleted from the lock table as far as some savepoints which are established after the locks are requested but before the locks are released are valid. That guarantees the correctness of savepoints and partial rollbacks under the circumstances of supporting the four transaction isolation levels of SQL2. Third, the concept of the mini-savepoint that preserves the atomicity of **update** operations of the SQL level is extended and adopted to triggers and stored procedures. According to that, the atomicity of triggers and stored procedures is supported and the scope of savepoint names is restricted to the internal of the corresponding triggers or stored procedures. (13 Refs)

Subfile: C

Copyright 1999, IEE

...Identifiers: **update** operations

25/7,K/16   **(Item 16 from file: 256)**

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.

(c)2004 Info.Sources Inc. All rts. reserv.

00101481   DOCUMENT TYPE: Review

PRODUCT NAMES: Microsoft DirectPlay (624616)

TITLE: Software Security and the DirectPlay API

AUTHOR: Wilson, Andrew

SOURCE: Dr Dobb's Journal,   v22 n4 p66(3) Apr 1997

ISSN: 1044-789X

HOMEPAGE: http://www.ddj.com

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

Microsoft's Microsoft DirectPlay application programming interface (API),

which is a subset of the DirectX Software Developers' Kit for Windows 95,
is described; DirectPlay can prevent software piracy by making an
intelligent application that can recognize piracy. DirectPlay API is
designed to generate or attach to a session; to generate a player; to
generate a player list; and to communicate with other players in the
session. A session is a serial number, a player is an instance of the
application, and the player list is the valid-user-license count. Three
transport methods are supported: IPX, TCP/IP, and modem. The security model
described involves writing a block of code invoked during application
startup that first uses the serial number to determine if other systems use
that number. It then checks how many users the license allows. If the user
count is within limits, the application enters the **serial   number   group**
 and allows the user to continue. Another check takes place, and if any
parameter is violated, the user is determined to be running a pirated copy
of the application. The **following** topics are covered: the model, the
network, DirectX SDK, and using the model provided in a real-world setting.
REVISION DATE: 19990330

  30/6/1   (Item 1 from file: 2)
 01334830   INSPEC Abstract Number: C79013547
 Title: **A random-number generator**
   Publication Date: Sept.-Oct. 1977

  30/6/4   (Item 4 from file: 2)
 03325799   INSPEC Abstract Number: A89038925
 Title: **Bimodality and the Hale cycle**
   Publication Date: 1988

  30/6/6   (Item 6 from file: 2)
 03487590   INSPEC Abstract Number: A89131004, C89069262
   Title: **Data   assimilation   into a numerical equatorial ocean model. II.
Assimilation experiments**
   Publication Date: June 1989

  30/6/7   (Item 7 from file: 35)
 1079879 ORDER NO: AAD89-22750
 SYNTHESIS OF PROSTANOIDS
   Year: 1989

  30/6/9   (Item 9 from file: 35)
 01208009 ORDER NO: AADD--94922
 **THE STRUCTURE AND EVOLUTION OF A RODENT SERINE PROTEINASE INHIBITOR GENE
COMPLEX (MICE)**
   Year: 1990

  30/6/10   (Item 10 from file: 35)
 01163978 ORDER NO: AAD91-18386
 **MYOSIN SUBUNIT ASSEMBLY: PURIFICATION OF NASCENT MYOSIN   FOLLOWING   IN
VITRO TRANSLATION OF SKELETAL MUSCLE MRNA AND ANALYSIS OF SKELETAL MYOSIN
HEAVY CHAIN ISOFORM COMPOSITION DURING DEVELOPMENT**
   Year: 1990

  30/6/11   (Item 11 from file: 35)
 01172907 ORDER NO: AAD91-27995
 **CHARACTERISTICS OF CITATIONS IN GEOSCIENCE DOCTORAL DISSERTATIONS ACCEPTED
AT UNITED STATES ACADEMIC INSTITUTIONS, 1981-1985**

Year: 1991

30/6/12   **(Item 12 from file: 475)**
06778553
**WHO'S NEWS: CBS ENTERTAINMENT PRESIDENT RESIGNS; SAGANSKY LET NETWORK TO
  NO. 1 POSITION**
Friday April 15 1994

30/6/13   **(Item 13 from file: 2)**
4597354   INSPEC Abstract Number: A9406-4740-004
  Title: **The stability of imploding detonations: results of numerical
simulations**
  Publication Date: Jan. 1994

30/6/14   **(Item 14 from file: 2)**
5025824   INSPEC Abstract Number: A9518-8745-013
  Title: **Do adaptations in serial sarcomere number occur with strength
training?**
  Publication Date: June 1995

30/6/15   **(Item 15 from file: 35)**
01432535   ORDER NO: AADAA-I9531358
**MOLECULAR MODELING OF METAL ION BINDING IN CALCIUM-BINDING PROTEINS
(CALMODULIN)**
  Year: 1995

30/6/18   **(Item 18 from file: 35)**
01843357   ORDER NO: AADAA-I3020184
**Analysis of AAV integration, and evaluation of recombinant angiostatin for
gene therapy**
  Year: 1999

30/6/19   **(Item 19 from file: 2)**
6820680   INSPEC Abstract Number: A2001-05-8745-003
  Title: **A spherical rotation coordinate system for the description of
three-dimensional joint rotations**
  Publication Date: Nov. 2000

30/7,K/2   **(Item 2 from file: 2)**
DIALOG(R)File   2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.
01728959   INSPEC Abstract Number: A81079597
  Title: **Sensitivity analysis of the meteorological model applied in the
German reactor risk study (DRS)**
  Author(s): Vogt, S.
  Author Affiliation: KFA, Karlsruhe, West Germany
  Conference Title: Seminar on Radioactive Releases and their Dispersion in
the Atmosphere Following a Hypothetical Reactor Accident   Part I   p.
539-54
  Publisher: Comm. European Communities, Luxembourg
  Publication Date: 1980 Country of Publication: Luxembourg   xii+554 pp.
  Conference Date: 22-25 April 1980   Conference Location: Roskilde,
Denmark
  Language: English   Document Type: Conference Paper (PA)
  Treatment: Theoretical (T)
  Abstract: The occurrence of a hypothetical reactor accident is an

extremely improbable event. If in the course of such an event radioactive
material is released from the containment into the atmosphere, this might
impair the health of the population living in the environment of the
reactor site. The extent of impairment is determined by the **following**
parameters: the type and amount of radioactive material released into the
atmosphere; the meteorological conditions prevailing at the time of the
accident and thereafter; the population concerned. In the DRS consequence
model a representative selection is taken for each of these three parameter
groups. For the second **group** a **number** of **sequences** of weather
conditions is selected. A sensitivity analysis of the meteorological model
leaves unchanged the first and last group of parameters included in the
listing above and **changes** only internal parameters and model assumptions
in the meteorological model. The submodels of dose computation, of
protective and counter actions and of health damage also remain unchanged.
(6 Refs)   Subfile: A

   30/7,K/3   (Item 3 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.
02289430   INSPEC Abstract Number: B84041418
   Title: Analysis of delayed m sequence
   Author(s): Zhou Da-hua
   Author Affiliation: Northwest Inst. of Nuclear Technol., China
   Journal: Acta Electronica Sinica   vol.11, no.6   p.22-7
   Publication Date: Nov. 1983 Country of Publication: China
   CODEN: TTHPAG   ISSN: 0372-2112
   Language: Chinese   Document Type: Journal Paper (JP)
   Treatment: Theoretical (T)
   Abstract: The method of expressing the state of a shift register by Walsh
Hadamard Function is used to solve the **following** two problems: (1) the
number of bits of delay with which a delayed m sequence is made of Modulo 2
adders of two or several delayed m **sequences** ; (**2**) the **number** of bits
of delay with which a delayed m sequence is made of Modulo 2 adders of any
number of stages for a generator of delayed m sequence. A general solution
of these problems is proposed, and a simplified method is given for the
analysis of some delayed m sequences. Delayed m sequences with reciprocal
polynomial are also discussed. (5 Refs)
   Subfile: B

   30/7,K/5   (Item 5 from file: 35)
DIALOG(R)File   35:Dissertation Abs Online
(c) 2004 ProQuest Info&Learning. All rts. reserv.
0995559 ORDER NO: AAD88-12684
OPTICAL ARCHITECTURES FOR DIGITAL SIGNAL PROCESSING
   Author: ANTONY, SUSAMMA
   Degree: PH.D
   Year: 1988
   Corporate Source/Institution: UNIVERSITY OF CINCINNATI (0045)
   Source: VOLUME 49/05-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
            PAGE 1858. 217 PAGES
     Optical computing can be defined as the representation of information
by photons and the use of optical devices for the parallel processing of
one-dimensional or multidimensional data. Optical implementation requires
significant **advances** in devices, identification of a suitable number
system and encoding scheme to represent the data, and development of
architectures and algorithms that can utilize the unique properties of

optics. The modified signed-digit (MSD) representation employed in the
design of the architectures developed in this dissertation fully exploits
the parallelism of optics. MSD representation satisfies the requirements of
totally parallel addition/subtraction using modular or identical units and
allows the addition/subtraction of any **two**   **numbers** in **two**   **successive**
 steps. Since MSD representation possess many advantages over the binary
and residue number systems, MSD is identified as a better suitable number
system for optical implementations. The MSD digits are coded using three
linear states of polarization.

The two arithmetic units--the adder and the multiplier--are developed
to form the basic building blocks of an optical computer. The adder
performs the addition of two n-digit numbers in two stages compared to the
n + 1 stages present in the n-digits 2's complement adder. Thus the MSD
adder has significant advantages over the 2's complement adder. The optical
multiplier eliminates the need for high speed analog-to-digital (A/D)
converters, resulting in a higher throughput compared to the optical
multipliers based on the DMAC algorithm.

The optical systolic FIR filter proposed here uses a barrel
shifter-accumulator cell instead of the conventional multiplier-accumulator
cell, thereby providing a speed-up in the throughput data rate along with a
high degree of regularity and concurrency. An eight order FIR filter can be
implemented using one liquid crystal light valve (LCLV) and one MSD adder.

The optical implementation of the median filter offers an increased
throughput compared to the conventional electronic implementation by
performing the median filtering operations as a set of binary median
filtering operations, thus fully utilizing the parallelism offered by SSL
and the massive parallelism of optics.

All the designs presented here are based on the principle of symbolic
substitution. Certain implementation constraints associated with symbolic
substitution logic (SSL) that were identified during this research and the
solutions to overcome those constraints are also given.

30/7,K/8   (Item 8 from file: 2)
DIALOG(R)File   2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.
03944273   INSPEC Abstract Number: C91053410
 Title: Julia sets of z from z/sup infinity /+c
  Author(s): Vangala, N.; Gujar, U.G.; Bhavsar, V.C.
  Author   Affiliation: Fac.   of Comput.   Sci.,   New   Brunswick   Univ.,
Fredericton, NB, Canada
  Conference Title: CG International '90. Computer Graphics Around the
World   p.133-45
  Editor(s): Chua, T.S.; Kunii, T.L.
  Publisher: Springer-Verlag, Berlin, Germany
  Publication Date: 1990 Country of Publication: West Germany   x+606 pp.
  ISBN: 3 540 70062 5
  Conference Sponsor: Inst. Syst. Sci
  Conference Date: 25-29 June 1990   Conference Location: Singapore
  Language: English   Document Type: Conference Paper (PA)
  Treatment: Theoretical (T)
  Abstract: The   fractal   images   generated   from   the   generalized
transformation function z from z/sup alpha /+c in the complex z-plane are
analysed. The exponent alpha can assume any real or integer, either
positive or negative, value. When the exponent alpha is a positive integer
number, the fractal image has a lobular structure with the number of lobes
equal to alpha . When alpha is a negative integer number the generated

fractal image has a planetary structure with a central planet and mod alpha
mod satellite structures around it. When alpha is varied continuously
between **two consecutive** integer **numbers** , continuous and predictable
changes are observed between the two limiting fractal images. Some
conjectures regarding the visual characteristics of the fractal images and
the value of alpha are included. (7 Refs)
  Subfile: C

  30/7,K/20   **(Item 20 from file: 2)**
DIALOG(R)File   2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.
6624562   INSPEC Abstract Number: C2000-08-4240C-002
 Title: The train marshalling problem
  Author(s): Dahlhaus, E.; Horak, P.; Miller, M.; Ryan, J.F.
  Author Affiliation: Dept. of Comput. Sci., Koln Univ., Germany
  Journal: Discrete Applied Mathematics   vol.103, no.1-3   p.41-54
  Publisher: Elsevier,
  Publication Date: 15 July 2000   Country of Publication: Netherlands
  CODEN: DAMADU   ISSN: 0166-218X
  SICI: 0166-218X(20000715)103:1/3L.41:TMP;1-U
  Material Identity Number: D066-2000-008
  U.S. Copyright Clearance Center Code: 0166-218X/2000/$20.00
  Document Number: S0166-218X(99)00219-X
  Language: English   Document Type: Journal Paper (JP)
  Treatment: Practical (P); Theoretical (T)
  Abstract: The problem considered in this paper arose in connection with
the rearrangement of railroad cars in China. In terms of sequences the
problem reads as **follows** : Train Marshalling Problem: Given a partition S
of $\{1,...,n\}$ into disjoint sets $S/sub\ 1/,...,S/sub\ t/$, find the smallest
number $k=K(S)$ so that there exists a permutation $p(1),...,\ p(t)$ of
$\{1,...,t\}$ with the property: The **sequence** of **numbers** 1, 2
$,...,n,1,2,...,n,...,1,2,...,n$ where the interval $1,2,...,n$ is repeated k
times contains all the elements of $S/sub\ p(1)/$, then all elements of S/sub
$p(2)/,...,$etc., and finally all elements of $S/sub\ p(2)/$. The aim of this
paper is to show that the decision problem: "Given numbers n,k and a
partition S of $\{1,2,...,n\}$, is $K(S)<or=k?$" is NP-complete. In light of
this, we give a general upper bound for K(S) in terms of n. (5 Refs)
  Subfile: C
  Copyright 2000, IEE

  37/6/1   **(Item 1 from file: 583)**
06102048
Kaibele tulevad uued 500-kroonised pangatahed
  ESTONIA: NEW 500 KROON BILLS IN CIRCULATION
13 Jan 1995

  37/6/2   **(Item 2 from file: 583)**
02840056
GNL INSTALLS TWO LINX 5100 INK JET PRINTERS
  UK - GNL INSTALLS TWO LINX 5100 INK JET PRINTERS
2 August 1989

  37/7,K/3   **(Item 1 from file: 2)**
DIALOG(R)File   2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.
5384743   INSPEC Abstract Number: B9611-8520-055

Title: Identification of current load graphs by using the connection function
Author(s): Bikadorov, A.
Author Affiliation: Univ. of Transp., Rostov-on-Don, Russia
Conference Title: Second International Scientific Conference. Modern Supply Systems and Drives for Electric Traction. Conference Proceedings p.18-19
Publisher: Warsaw Univ. Technol, Warsaw, Poland
Publication Date: 1995 Country of Publication: Poland   xiv+304 pp.
Material Identity Number: XX95-02337
Conference Title: Proceedings of 2nd International Conference on Modern Supply Systems and Drives for Electric Traction
Conference Sponsor: Ministr. Educ. Naradowej; Komitet Badan Naukowych; IEE; et al
Conference Date: 5-7 Oct. 1995   Conference Location: Warsaw, Poland
Availability: Warsaw University of Technology, El. Traction Group, 00-661 Warsaw, Plac Politechniki 1, Poland
Language: English   Document Type: Conference Paper (PA)
Treatment: Theoretical (T)
Abstract: The necessity of identifying current load graphs arises when solving the tasks of the power supply, **protection** , analysis of the current locomotive graphs in coupled trains, and comparison of experimental results. It is necessary to know both the degree of statistical connection between the values of the random variable in its **number sequence** and between the **numerical sequences** of **two** random variables. Practical calculations show that the use of correlation functions in estimating the connection degree does not always give the idea of it. That is why the author proposes the special connection function for this aim. (1 Refs)
Subfile: B
Copyright 1996, IEE

37/7,K/6   (Item 1 from file: 99)
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs
(c) 2004 The HW Wilson Co. All rts. reserv.
2077272 H.W. WILSON RECORD NUMBER: BAST99043092
Pentium serial   number **pains privacy** groups
Geppert, Linda;
IEEE Spectrum v. 36 no6 (June 1999) p. 92
DOCUMENT TYPE: Feature Article ISSN: 0018-9235
ABSTRACT: The public relations controversy related to Intel's hardwiring of a unique serial number, accessible over the Internet and private networks, into every Pentium III chip continues. Intel says the feature is a way for organizations to enhance **security** and manage information and equipment. However, privacy groups were apoplectic and demanded that Intel disable the processor **serial number** immediately. A utility that the company developed to enable consumers' to control access to the number has turned out to be hackable.

37/7,K/7   (Item 1 from file: 256)
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.
(c)2004 Info.Sources Inc. All rts. reserv.
00092981   DOCUMENT TYPE: Review
PRODUCT NAMES: Defender Windows NT 1.0 (303291)
TITLE: Defender Security **Server provides key to safe remote LAN access**
AUTHOR: Madden, Mary
SOURCE: InfoWorld,   v18 n26 pN/2(1) Jun 24, 1996

ISSN: 0199-6649
HOMEPAGE: http://www.infoworld.com
RECORD TYPE: Review
REVIEW TYPE: Review
GRADE: A
Digital Pathways' now AssureNet Pathways' Defender **Security** Server for
Windows NT (DSS/NT) 1.0, a recommended Windows NT **security** solution, is a
good choice for organizations that need to **protect** corporate data linked
to WANs or to which users remotely connect. Any company that has stringent
and changeable **security** requirements can get benefits from DSS/NT. DSS/NT
improves on RAS and other communications servers by, for example, requiring
a one-time password useful only for a particular remote session. DSS/NT
also offers a way to lock out further access attempts when a user- **set**
number of **sequential** failed accesses is reached. Users can also be
granted access to different **security** servers, which can be managed from a
central management console, WinDMS. A full-functioned reporting tool allows
users to create sophisticated reports of user violations and system usage.
Users can choose between hardware tokens or software **security** options.
REVISION DATE: 20010330
DESCRIPTORS: Computer **Security** ; IBM PC & Compatibles; LANs; Network
    Software; Password **Protection** ; Remote Network Access; Windows NT/2000

```
File  15:ABI/Inform(R) 1971-2004/Jan 28
File   9:Business & Industry(R) Jul/1994-2004/Jan 28
File 610:Business Wire 1999-2004/Jan 28
File 810:Business Wire 1986-1999/Feb 28
File 476:Financial Times Fulltext 1982-2004/Jan 29
File 624:McGraw-Hill Publications 1985-2004/Jan 28
File 636:Gale Group Newsletter DB(TM) 1987-2004/Jan 29
File 613:PR Newswire 1999-2004/Jan 29
File 813:PR Newswire 1987-1999/Apr 30
File 634:San Jose Mercury  Jun 1985-2004/Jan 28
Set     Items    Description
S1    3206331    NUMBER??? OR NUMERAL? ? OR NUMERIC?
S2    1019785    SEQUENC??? OR SEQUENT? OR SERIAL? OR CONSECUTIV? OR SUCCES-
                 SION? ? OR SUCCESSIVE? OR SUBSEQUENT OR SUCCEED??? OR SUCCEDE-
                 NT
S3    6924486    DOUBLE OR PAIR? ? OR SET OR SETS OR SERIES OR GROUP? ?
S4    1363389    ALTERNATE OR DIFFERENT
S5    4999472    TWO
S6    5565022    2
S7    6819012    UPDAT??? OR CHANG??? OR ADVANC??? OR FORWARD??? OR FOLLOW?-
                 ??
S8    2737614    SECUR??? OR SURETY OR SAFEGUARD??? OR PROTECT???
S9      10602    S1(N)S2
S10     13990    S1(2N)S2
S11     46754    S1(2N)S3
S12     28545    S1(2N)S4
S13     42949    S1(2N)S5
S14     30832    S1(2N)S6
S15       342    S9(3N)S11:S14
S16        12    S7(5N)S15
S17        47    S7(S)S15
S18        49    S8(S)S15
S19         7    S17(S)S18
S20         6    RD (unique items)
S21         6    Sort S20/ALL/PD,A
S22        10    S16 NOT S19
S23        10    RD (unique items)
S24         2    S23/2001:2004
S25         8    S23 NOT S24
S26         8    Sort S25/ALL/PD,A
S27         5    S8(5N)S15
S28         5    S27 NOT (S16 OR S19)
S29         5    RD (unique items)
S30       468    S10(3N)S11:S14
S31         4    S30(5N)S7:S8 NOT (S16 OR S19 OR S27)
S32         4    RD (unique items)
```

21/8/4   (Item 4 from file: 9)
DIALOG(R)File 9:(c) 2004 Resp. DB Svcs. All rts. reserv.
1681826 Supplier Number: 01681826   (USE FORMAT 7 OR 9 FOR FULLTEXT)
Thailand - AIS To Tackle Cellphone Fraud
December 05, 1996
WORD COUNT: 234
COMPANY NAMES: ADVANCED INFO SERVICE CO LTD   (SHINAWATRA COMPUTER AND
  COMMUNICATIONS PUBLIC CO LTD)
INDUSTRY NAMES: Mobile communications; Telecom services;

    Telecommunications
PRODUCT NAMES: Cellular telephone services   (481218)
CONCEPT TERMS: All company; Corporate strategy
GEOGRAPHIC NAMES: Southern & Eastern Asia (SSAX); Thailand (THA)

 21/3,K/1   (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.
00366590 87-25424
Confessions of a Bank Con Man
Blank, Dennis
Bankers Monthly v104n6 PP: 32-36 Jun 1987
ISSN: 0005-5476 JRNL CODE: BKM
...ABSTRACT: foreign countries. Today, Abagnale is a leading ·authority on
credit card fraud, bad checks, money- **changing** scams, and phony IDs. His
multimillion-dollar-a-year business provides fail-safe **security** systems
for major stores and banks. According to Abagnale, check deposit slips are
of great...
... side is perforated. They should also learn to read the routing code in
the 9 **consecutive** **numbers** inside **2** brackets at the bottom left-hand
corner of the check.

 21/3,K/5   (Item 5 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.
01914437 05-65429
It ain't necessarily so
Crossley, Frances; Warwick, Martyn
Communications International v26n10 PP: 128-134 Oct 1999
ISSN: 0305-2109 JRNL CODE: COI
WORD COUNT: 2172
...TEXT: a highly trained polecat are long since past.
Mobile data networks today operate numerous, complex **security** measures
including user authentication, equipment identity registers, electronic
 serial   **numbers** , closed user **groups** and over air message encryption.
Illegal monitoring of radio transmissions on packetswitched networks is
extremely...
... bursts are very short and the transmission frequencies of terminals on
the move are constantly **changing** . Then, all data packets recorded would
have, somehow, to be sorted so that data from...

 21/3,K/6   (Item 6 from file: 610)
DIALOG(R)File 610:Business Wire
(c) 2004 Business Wire. All rts. reserv.
00139126 19991115319B1436 (USE FORMAT 7 FOR FULLTEXT)
CRYPTOCard Introduces Key Fob and Palm Tokens with CRYPTOAdmin 4.1
Business Wire
Monday, November 15, 1999 09:11 EST
JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
DOCUMENT TYPE: NEWSWIRE
WORD COUNT: 850
...new user interface for CRYPTOAdmin 4.1 incorporates enhanced
management and control capabilities for network **security**
administrators. The nested groups feature makes it easy for entire
departments, divisions, or business units of users to be quickly
accommodated as organizations make **changes** to their **security** policy.

Administrators can now easily add more detailed user information and quickly find users by first or last name, department, or token **serial number** .
" **Different** users prefer different types of authentication tokens," said Dr. Tony Walker, CRYPTOCard's vice president...
...devices, the KF-1 and the PT-1 offer the strongest level of access control **protection** in a form factor that many road warriors prefer. Furthermore, many internal users will like...

26/8/5   (Item 5 from file: 636)
DIALOG(R)File 636:(c) 2004 The Gale Group. All rts. reserv.
03229761   Supplier Number: 46623073 (USE FORMAT 7 FOR FULLTEXT)
AMENDMENT WOULD BLOCK RELOCATION
August 12, 1996
Word Count: 5654
PUBLISHER NAME: Pasha Publications, Inc.
INDUSTRY NAMES: BUSN (Any type of business); OIL (Petroleum, Energy
   Resources and Mining)

26/8/7   (Item 7 from file: 15)
DIALOG(R)File 15:(c) 2004 ProQuest Info&Learning. All rts. reserv.
01731481   03-82471
Corporate-class Internet? Don't count on it!   WORD COUNT: 6513
   LENGTH: 13 Pages
Nov 1998
GEOGRAPHIC NAMES: US
DESCRIPTORS: Manycompanies; Internet service providers; Performance
   evaluation; Network hubs; Network operating systems; Connectivity
CLASSIFICATION CODES: 9190 (CN=United States); 8330 (CN=Broadcasting &
   telecommunications); 5320 (CN=Quality control); 5250
   (CN=Telecommunications systems)

26/8/8   (Item 8 from file: 636)
DIALOG(R)File 636:(c) 2004 The Gale Group. All rts. reserv.
04711532   Supplier Number: 63137153 (USE FORMAT 7 FOR FULLTEXT)
**Office of the Press Secretary -- To modify duty-free treatment under the
   generalized system of preferences and for other purposes.**
July 3, 2000
Word Count: 1888
PUBLISHER NAME: M2 Communications Ltd.
INDUSTRY NAMES: BUSN (Any type of business); INTL (Business,
   International)

26/3,K/1   (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.
00480074 90-05831
Technophone MC 905A
Howat, Faris
Cellular Business v7n1 PP: 72-76 Jan 1990
ISSN: 0741-6520 JRNL CODE: CLB
...ABSTRACT: simple and straightforward. The MC 905A has many convenient features, including: 1.   display own phone **serial   number** , **2** . alpha search, 3.   **change** personal identification number, 4. automatic redial, and 5. memory recall restriction. It differs from other...

26/3,K/2   (Item 2 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.
02707421   Supplier Number: 45491991   (USE FORMAT 7 FOR FULLTEXT)
COMSAT SUES GI
Television Digest, v35, n17, pN/A
April 24, 1995
Language: English   Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 407
...   patent was issued in early 1980s, reissued in 1990. Conditional
access systems apply logarithms to **series** of **numerical   sequences** .
Keys, which are **updated** monthly, are embedded in receivers and decoders
to put signal back together.
        Comsat will determine...

29/8/2   (Item 1 from file: 610)
DIALOG(R)File 610:(c) 2004 Business Wire. All rts. reserv.
00559298 20010723204B9992   (USE FORMAT 7 FOR FULLTEXT)
Attorney General Appoints Identity Theft Team to Advance New Law
Monday, July 23, 2001 13:01 EDT
WORD COUNT: 995
COMPANY NAMES: SOCIAL SECURITY; FEDERAL TRADE COMMISSION
GEOGRAPHIC NAMES: AMERICAS; NORTH AMERICA; USA; WASHINGTON
INDUSTRY NAMES: CRIME; GOVERNMENT; INSTITUTIONS; LEGAL; LEGISLATION;
   SOCIAL ISSUES
EVENT NAMES: CONTRACTS AND ORDERS; GOVERNMENT; LEGAL; ORGANISATIONS AND
   INSTITUTIONS

29/8/3   (Item 2 from file: 610)
DIALOG(R)File 610:(c) 2004 Business Wire. All rts. reserv.
00516815 20010509129B6824   (USE FORMAT 7 FOR FULLTEXT)
AG Alerts Consumers to New Law That Protects Their Good Names
Wednesday, May 9, 2001 12:35 EDT
WORD COUNT: 1,265
COMPANY NAMES: AG; FEDERAL TRADE COMMISSION; SOCIAL SECURITY
INDUSTRY NAMES: CRIME; FRAUD; GOVERNMENT; INSTITUTIONS; JUDICIAL; LEGAL;
   LEGISLATION; PROPERTY CRIME; SOCIAL ISSUES
EVENT NAMES: GOVERNMENT; LEGAL; SOCIAL ISSUES

29/8/4   (Item 1 from file: 624)
DIALOG(R)File 624:(c) 2004 McGraw-Hill Co. Inc. All rts. reserv.
0587093
**Making More of Windows NT: A complete implementation of SVR4 Unix on
    Windows NT? Not exactly, but Portage is a good start**
July, 1994
Word Count: 1,430   *Full text available in Formats 5, 7 and 9*

29/8/5   (Item 1 from file: 636)
DIALOG(R)File 636:(c) 2004 The Gale Group. All rts. reserv.
04775400   Supplier Number: 65147599   (USE FORMAT 7 FOR FULLTEXT)
Consumers should guard against identity theft.
Sept 11, 2000
Word Count: 1053
PUBLISHER NAME: M2 Communications Ltd.
INDUSTRY NAMES: BUSN (Any type of business); INTL (Business,

International)

29/3,K/1   (Item 1 from file: 15)
DIALOG(R)File   15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.
00374671 87-33505
Computer Crime
Anonymous
Industrial Management & Data Systems   PP: 28-31   Jul/Aug 1987
ISSN: 0263-5577   JRNL CODE: IDS
...ABSTRACT: transfer networks may be protected by built-in hardware codes
and restricted terminal use. Communication **security** may include: 1.
message **sequence numbers** , **2** . the use of fiber optics for wide-band,
high-speed data transmission to prevent wiretapping...

32/8/1   (Item 1 from file: 15)
DIALOG(R)File   15:(c) 2004 ProQuest Info&Learning. All rts. reserv.
00867128 95-16520   **USE FORMAT 9 FOR FULL TEXT**
Why did economic models falsely predict a Bush landslide in 1992?
WORD COUNT: 3718   LENGTH: 8 Pages
Apr 1994
GEOGRAPHIC NAMES: US
DESCRIPTORS: Economic models; Political campaigns; Presidency; Forecasting
   techniques; Effectiveness; Statistical analysis; Studies
CLASSIFICATION CODES: 1130 (CN=Economic theory); 9550 (CN=Public sector);
   9190 (CN=United States); 9130 (CN=Experimental/Theoretical)

32/8/3   (Item 1 from file: 476)
DIALOG(R)File 476:(c) 2004 Financial Times Ltd. All rts. reserv.
0010041093 B0JGABAAC4FT
THE AMERICAS: Bush smashes campaign fundraising records: NEWS DIGEST
Thursday, July 1, 1999
Word Count: 166
DESCRIPTORS: Economic Indicators; Government - Central; Sales
GEOGRAPHIC NAMES: Canada (GC=CA)
PRODUCT/INDUSTRY NAMES: Finance, Taxation, and Monetary Policy (SC=9311);
   General Government, NEC (SC=9199)

32/8/4   (Item 2 from file: 476)
DIALOG(R)File 476:(c) 2004 Financial Times Ltd. All rts. reserv.
0010041086 B0JGABAADAFT
US AND CANADA: Canada enjoys growth for nine months
Thursday, July 1, 1999
Word Count: 349
DESCRIPTORS: Economic Indicators; Government - Central.
GEOGRAPHIC NAMES: Canada (GC=CA)
PRODUCT/INDUSTRY NAMES: Administration of General Economic Programs
   (SC=9611)

32/3,AB,K/2   (Item 1 from file: 810)
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.
0323778 BW752
**FDA TRACKING REGULATION: FDA tracking regulation will require manufacturers
    and distributors to keep precise records**
March 10, 1993

Byline: Business Editors, Health/Medical Writers
    ...data to manufacturers, it is still the
manufacturers' responsibility to provide the FDA with the **following** :
    1. Manufacturer's identifier, including **serial   number** , model
        number , or other tracking **number** .
    2 . The date the device was shipped.
    3. Patient information, including name, address, telephone
        number and...

```
File 275:Gale Group Computer DB(TM) 1983-2004/Jan 29
File 621:Gale Group New Prod.Annou.(R) 1985-2004/Jan 29
File  16:Gale Group PROMT(R) 1990-2004/Jan 29
File 160:Gale Group PROMT(R) 1972-1989
File 148:Gale Group Trade & Industry DB 1976-2004/Jan 29
File  20:Dialog Global Reporter 1997-2004/Jan 29
Set     Items    Description
S1     8132910    NUMBER??? OR NUMERAL? ? OR NUMERIC?
S2     2582283    SEQUENC??? OR SEQUENT? OR SERIAL? OR CONSECUTIV? OR SUCCES-
                  SION? ? OR SUCCESSIVE? OR SUBSEQUENT OR SUCCEED??? OR SUCCEDE-
                  NT
S3     17777739   DOUBLE OR PAIR? ? OR SET OR SETS OR SERIES OR GROUP? ?
S4     3562706    ALTERNATE OR DIFFERENT
S5     13765709   TWO
S6     12833088   2
S7     18044660   UPDAT??? OR CHANG??? OR ADVANC??? OR FORWARD??? OR FOLLOW?-
                  ??
S8     9641594    SECUR??? OR SURETY OR SAFEGUARD??? OR PROTECT???
S9       38618    S1(2N)S2
S10     117669    S1(2N)S3
S11      61420    S1(2N)S4
S12     118528    S1(2N)S5
S13      71654    S1(2N)S6
S14       1076    S9(3N)S10:S13
S15         28    S14(5N)S7
S16         18    S14(5N)S8
S17          0    S15(S)S16
S18         46    S15:S16
S19         35    RD (unique items)
S20         12    S19/2001:2004
S21         23    S19 NOT S20
S22         23    Sort S21/ALL/PD,A
```

22/8/2   (Item 2 from file: 148)
DIALOG(R)File 148:(c)2004 The Gale Group. All rts. reserv.
04154584   SUPPLIER NUMBER: 08161645   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Drawings: toward a standard format. (P/A Practice)
Dec, 1989
WORD COUNT: 1262   LINE COUNT: 00105
 INDUSTRY CODES/NAMES: ARCH   Architecture and Design
 DESCRIPTORS: Architectural drawing--Standards; Construction industry--
  Standards
 SIC CODES: 8712   Architectural services; 1500   GENERAL BUILDING
  CONTRACTORS

22/8/4   (Item 4 from file: 275)
DIALOG(R)File 275:(c) 2004 The Gale Group. All rts. reserv.
01467256   SUPPLIER NUMBER: 11744516   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Autocad tip. (using AutoCAD's Autolisp programming language to perform
 mathematical calculations) (Tutorial)**
Dec, 1991
WORD COUNT: 1758   LINE COUNT: 00129
 SPECIAL FEATURES: illustration; table
 DESCRIPTORS: Programming Language; Computer-Aided Design; Software
  Packages; Computer Arithmetic; Mathematical Programming; Functional
  Capabilities; Tutorial

```
SIC CODES:  7372  Prepackaged software
TICKER SYMBOLS:  ACAD
TRADE NAMES:  AutoCAD (CAD software)--Usage
OPERATING PLATFORM:  MS-DOS
```

22/8/6   (Item 6 from file: 148)
DIALOG(R)File 148:(c)2004 The Gale Group. All rts. reserv.
05817361   SUPPLIER NUMBER: 12020738   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Counterfeit 10,000-Yen Notes Surface in Kobe
April 6, 1992
WORD COUNT: 127   LINE COUNT: 00010
 INDUSTRY CODES/NAMES: BUS   Business, General
 DESCRIPTORS: Japan. National Police Agency--Reports

22/8/9   (Item 9 from file: 16)
DIALOG(R)File 16:(c) 2004 The Gale Group. All rts. reserv.
02904034   Supplier Number: 43920176 (USE FORMAT 7 FOR FULLTEXT)
Penetration of waterborne coatings into the automotive (OEM) industry
June 23, 1993
Word Count: 2195
PUBLISHER NAME: FMJ International Publications Ltd.
EVENT NAMES: *330 (Product information); 320 (Manufacturing processes)
GEOGRAPHIC NAMES: *4E (Europe)
PRODUCT NAMES: *2852311   (Motor Vehicle Coatings); 2850100   (Water Base
  Paint); 3711000   (Motor Vehicles)
INDUSTRY NAMES: INTL (Business, International)
NAICS CODES: 32551 (Paint and Coating Manufacturing); 33611   (Automobile
  and Light Duty Motor Vehicle Manufacturing)
SPECIAL FEATURES: LOB

22/8/13   (Item 13 from file: 16)
DIALOG(R)File 16:(c) 2004 The Gale Group. All rts. reserv.
05047219   Supplier Number: 47409145 (USE FORMAT 7 FOR FULLTEXT)
Royal Replacement Should Firm Up A310-300 Values
May 26, 1997
Word Count: 235
PUBLISHER NAME: Cowles-SIMBA Information
COMPANY NAMES: *Airbus Industrie; GECAS; Royal Airlines
EVENT NAMES: *430 (Capital expenditures); 613 (New orders received)
GEOGRAPHIC NAMES: *1CANA (Canada)
PRODUCT NAMES: *4510000   (Scheduled Airlines); 3721350   (Jumbo Jets)
INDUSTRY NAMES: AERO (Aerospace and Defense); BUSN (Any type of business)
NAICS CODES: 4811 (Scheduled Air Transportation); 336411 (Aircraft
  Manufacturing)
TRADE NAMES: 727; A310; A310-300; L-1011
SPECIAL FEATURES: INDUSTRY; COMPANY

22/8/15   (Item 15 from file: 148)
DIALOG(R)File 148:(c)2004 The Gale Group. All rts. reserv.
11758061   SUPPLIER NUMBER: 56904682   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Improving roadways: performance graded asphalt binders.
Sept, 1997
WORD COUNT: 1827   LINE COUNT: 00156
 DESCRIPTORS: Asphalt--Additives; Asphalt industry--Standards
 PRODUCT/INDUSTRY NAMES: 2899549 (Binders & Hardeners NEC)
 SIC CODES: 2899 Chemical preparations, not elsewhere classified

NAICS CODES: 325998   All Other Miscellaneous Chemical Product and
 Preparation Manufacturing

22/8/16   (Item 16 from file: 16)
DIALOG(R)File 16:(c) 2004 The Gale Group. All rts. reserv.
07370630   Supplier Number: 59545626   (USE FORMAT 7 FOR FULLTEXT)
THE OFFICIAL UK CHARTS.
Dec 6, 1997
Word Count: 1113
PUBLISHER NAME: Miller Freeman UK Ltd
EVENT NAMES: *240   (Marketing procedures)
GEOGRAPHIC NAMES: *4EUUK   (United Kingdom)
PRODUCT NAMES: *3652000   (Records & Tapes)
INDUSTRY NAMES: ARTS   (Arts and Entertainment); BUSN   (Any type of
   business)
SIC CODES: 3652   (Prerecorded records and tapes)
NAICS CODES: 51222   (Integrated Record Production/Distribution)
SPECIAL FEATURES: LOB
ADVERTISING CODES: 85   Industry Market Data; 82   Geographic

22/8/18   (Item 18 from file: 20)
DIALOG(R)File 20:(c) 2004 The Dialog Corp. All rts. reserv.
04255280 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Fake notes on the increase, police warn
February 06, 1999
WORD COUNT: 356
DESCRIPTORS: Crimes;   General News;   Money Supply;   Economic Indicators;
   Economic News
COUNTRY NAMES/CODES: Hong Kong (HK)
REGIONS: Asia; Far East
SIC CODES/DESCRIPTIONS: 9221 (Police Protection)

22/8/21   (Item 21 from file: 20)
DIALOG(R)File 20:(c) 2004 The Dialog Corp. All rts. reserv.
12588880 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Bidder claims rigging in woodpole deal
 SECTION TITLE: General News
August 29, 2000
WORD COUNT: 752
DESCRIPTORS: Contracts & New Orders; Company News
COUNTRY NAMES/CODES: Philippines (PH)
REGIONS: Asia; Pacific Rim; South East Asia

22/3,K/1   (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.
01287451   SUPPLIER NUMBER: 07324283   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Save the display. (recording and renewing screen appearance) (1-2-3 Macros)
   (column)
Gasteiger, Daniel
Lotus, v5, n2, p26(4)
Feb, 1989
DOCUMENT TYPE: column   ISSN: 8756-7334   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2904   LINE COUNT: 00214
...   numbers in a column. There are times, however, when I need to fill

in evenly **sequenced** **numbers** between **two** **numeric** endpoints. I use
the **following** macro:
   To try the macro, enter labels as shown and select \Range Name Labels.
Right...

· 22/3,K/3   (Item 3 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
(c) 2004 The Gale Group. All rts. reserv.
01174002   Supplier Number: 42374255   (USE FORMAT 7 FOR FULLTEXT)
TRW SHIPS SECOND GENERATION FAX ENCRYPTOR
News Release, p1
Sept 20, 1991
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 636
...encryptor includes an Authentication Banner noting the date and time
the message was received, a " **Secure** " stamp, and the **serial number** or **group**
code of the sending encryptor.
   A Transaction Journal report summarizes the date and times of...

 22/3,K/7   (Item 7 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.
01513946   SUPPLIER NUMBER: 12139412   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Generating unique IDs: using PAL to generate primary keys when a unique
identifier is needed in your application. (Speaking of Paradox)(column)
(Tutorial)**
Ehrmann, Dan
DBMS, v5, n5, p22(3)
May, 1992
DOCUMENT TYPE: Tutorial   ISSN: 1041-5173   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2266   LINE COUNT: 00166
...   in the key field is the necessary portions of the last name and
first name, **followed** by the **sequence** **number** padded to **two**
characters. For the **sequence** **numbers** of one through nine, the Fill()
function is used to generate a leading zero. For...

 22/3,K/4   (Item 4 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.
01467256   SUPPLIER NUMBER: 11744516   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Autocad tip. (using AutoCAD's Autolisp programming language to perform
 mathematical calculations) (Tutorial)**
McCarthy, Tim
Cadcam, v10, n12, p23(2)
Dec, 1991
DOCUMENT TYPE: Tutorial   ISSN: 0963-5750   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1758   LINE COUNT: 00129
...   in Autolisp.
   A 2D point in autocad is the same as an Autolisp list containing **two**
  numbers . The **following** **sequence** uses SETQ and a new function, List,
to generate a point. This point is then...

 22/3,K/8   (Item 8 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.
01546871   SUPPLIER NUMBER: 12631915   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Streamline your program's setup with the version control and decompression
  DLLs. (dynamic link libraries) (Tutorial)
Richter, Jeffrey
Microsoft Systems Journal, v7, n6, p61(11)
Oct, 1992
DOCUMENT TYPE: Tutorial   ISSN: 0889-9932   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 6764   LINE COUNT: 00540
...   of variable information, Translation. This section describes which
languages are supported by the file. A **sequence** of **number   pairs**
follows the "Translation" string. In the VERSIONINFO resource in Figure 4,
the first number in the...

 22/3,K/10   (Item 10 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.
01676899   SUPPLIER NUMBER: 15320782   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**NLSP supplants RIP/SAP; protocol will cut WAN background traffic. (NetWare**
  **Link Services Protocol; routing information protocol/service advertising**
  **protocol) (includes brief related articles on interoperability,**
  **protocols) (PC Week/Netweek)**
Katz, William F.
PC Week, v11, n15, pN1(2)
April 18, 1994
ISSN: 0740-1604   LANGUAGE: ENGLISH   · RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1002   LINE COUNT: 00079
...   an expired LSP is flooded and the Link State database is updated to
reflect the **change** .
     The last packet type, the **Sequence   Number** packet, has **two**
variants -- the Partial **Sequence   Number** packet and the CSNP (Complete
Sequence Number packet).
     As stated earlier, changes in the network...

 22/3,K/14   (Item 14 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.
02094160   SUPPLIER NUMBER: 19698371
Inside run states. (Technology Tutorial)(Tutorial)
Henry, S. Lee
SunExpert, v8, n8, p36(4)
August, 1997
DOCUMENT TYPE: Tutorial   ISSN: 1053-9239   LANGUAGE: English
RECORD TYPE: Abstract
...ABSTRACT: in /etc/rc directories start with an S for start or a K for
kill **followed** by a **two** -digit **sequence   number** . There are several
higher-level scripts run only by init, under which there are as...

 22/3,K/17   (Item 17 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.
11581849   SUPPLIER NUMBER: 21201428   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Wireless system offers long range field testing capability. (SoMat Corp.
  offers new wireless modem system)

Diesel Progress North American Edition, v64, n6, p130(2)
June, 1998
LANGUAGE: English   RECORD TYPE: Fulltext; Abstract
WORD COUNT: 809   LINE COUNT: 00069
...   which extends the range and allows two repeaters to be used in a
link; factory- **set   serial   number** for data security; and on-board
qualitative and quantitative RF diagnostics for easy field troubleshooting
...

   22/3,K/19   **(Item 19 from file: 20)**
DIALOG(R)File   20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.
09646072   (USE FORMAT 7 OR 9 FOR FULLTEXT)
Export Promotion Bureau detects textile quota fraud by three firms
MUZAFFAR QURESHI
BUSINESS RECORDER
February 20, 2000
JOURNAL CODE: WBRE   LANGUAGE: English   RECORD TYPE: FULLTEXT
WORD COUNT: 878
...   the   export licences were forged and prepared on new set of export
licence forms containing **different** machine **serial   numbers** as given by
Pakistan **Security** Printing Corporation. To investigate the matter and
unearth the persons behind this forgery, the Export...

   22/3,K/22   **(Item 22 from file: 20)**
DIALOG(R)File   20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.
12781004   (USE FORMAT 7 OR 9 FOR FULLTEXT)
Texas A&M University: Consumers should guard against identity theft
M2 PRESSWIRE
September 11, 2000
JOURNAL CODE: WMPR   LANGUAGE: English   RECORD TYPE: FULLTEXT
WORD COUNT: 1037
...   your mother's maiden name, your birth date, the last four digits of
your Social **Security** Number or your phone **number** , or a **series** of
consecutive   numbers for a password or Personal Identification Number.
     -- If you have a reason to believe that...

   22/3,K/23   **(Item 23 from file: 20)**
DIALOG(R)File   20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.
13131332   (USE FORMAT 7 OR 9 FOR FULLTEXT)
FIGURING IT OUT with Robin Stewart
WESTERN MORNING NEWS , Cornish Guardian (all) ed, p19
September 28, 2000
JOURNAL CODE: FWMN   LANGUAGE: English   RECORD TYPE: FULLTEXT
WORD COUNT: 598
...   of coursework.
     - This   month's puzzle is to find a rule for each of the **following
two   number   sequences** .
     1.   2 ,5,8,11,14,17,..............
     2. 2,5,10,17,26,37,............ You can e...

```
File 625:American Banker Publications 1981-2004/Jan 29
File  80:TGG Aerospace/Def.Mkts(R) 1986-2004/Jan 28
File 635:Business Dateline(R) 1985-2004/Jan 28
File  47:Gale Group Magazine DB(TM) 1959-2004/Jan 28
File 268:Banking Info Source 1981-2004/Jan W3
File 626:Bond Buyer Full Text 1981-2004/Jan 29
File 267:Finance & Banking Newsletters 2004/Jan 26
File 608:KR/T Bus.News. 1992-2004/Jan 29
Set     Items    Description
S1     1390832   NUMBER??? OR NUMERAL? ? OR NUMERIC?
S2      444114   SEQUENC??? OR SEQUENT? OR SERIAL? OR CONSECUTIV? OR SUCCES-
                 SION? ? OR SUCCESSIVE? OR SUBSEQUENT OR SUCCEED??? OR SUCCEDE-
                 NT
S3     2647257   DOUBLE OR PAIR? ? OR SET OR SETS OR SERIES OR GROUP? ?
S4      782535   ALTERNATE OR DIFFERENT
S5     2508793   TWO
S6     2063136   2
S7     2551766   UPDAT??? OR CHANG??? OR ADVANC??? OR FORWARD??? OR FOLLOW?-
                 ??
S8     1063829   SECUR??? OR SURETY OR SAFEGUARD??? OR PROTECT???
S9        6893   S1(2N)S2
S10      24960   S1(2N)S3
S11      12772   S1(2N)S4
S12      17775   S1(2N)S5
S13      10773   S1(2N)S6
S14        261   S9(3N)S10:S13
S15         37   S14(S)S7
S16         28   S14(S)S8
S17          7   S15 AND S16
S18          7   RD (unique items)
S19          2   S18/2001:2004
S20          5   S18 NOT S19
S21         51   S15:S16 NOT S17
S22         48   RD (unique items)
S23          7   S22/2001:2004
S24         41   S22 NOT S23
S25         41   Sort S24/ALL/PD,A
```

20/8/5   (Item 1 from file: 608)
DIALOG(R)File 608:(c)2004 Knight Ridder/Tribune Bus News. All rts. reserv.
06641516   (USE FORMAT 7 OR 9 FOR FULLTEXT)
Akron Beacon Journal, Ohio, Net Rider Column
March 01, 1999
WORD COUNT: 512
COMPANY NAMES: Akron Beacon Journal ; Ameritech ; Beacon Journal ; Knight
. Ridder/Tribune Business News ; Modern ; Social Security ; Visit Akron
  Beacon Journal Online
DESCRIPTORS: Internet/Online

 20/3,K/1   (Item 1 from file: 625)
DIALOG(R)File 625:American Banker Publications
(c) 2004 American Banker. All rts. reserv.
0178544
Pru Takes Different View on Dollar Rolls
Insurance Accountant - February 19, 1996; Pg. 1; Vol. 6, No. 7
DOCUMENT TYPE: Newsletter   LANGUAGE: English   RECORD TYPE: Fulltext

WORD COUNT: 721
TEXT:
...securitizations, with a strong endorsement of the requirement that in
dollar rolls the exact same **security** must be returned to qualify for
financing treatment.
        This stance is contrary to much of...
...the effort to distinguish transfers of financial assets that are sales
from transfers that are **secured** borrowings," said Michael Castrilli, vice
president for accounting at Prudential Investment Co. "We strongly agree with
the proposed statement's position with regard to **secured**   borrowings
insofar   as   the   borrower   must   receive   back the identical **security**   in
the transaction in order to qualify for financing treatment."
        Current industry practice, based on...
...to be returned, Castrilli   noted.   But   he argued that this practice "can
lead to a **change** in the risk and benefits vis-a-vis the original asset
held."
        Because of this...
...group of securities, all must be identical in order to qualify
the transaction as a **secured** borrowing."
        This is decidedly a minority view within the insurance industry.
        "Focusing on the CUSIP...
...Fred P. Hauser, senior vice president and controller at MetLife. "When an
entity exchanges a **security** for a 'substantially similar **security** ,' we
do not believe that an event of economic substance has occurred, and,
therefore, a...
...draft could actually lead to more gamesmanship. "An entity could exchange
its MBS (mortgage backed **security**) portfolio through a dollar repurchase
agreement and recognize desired gains or losses even though the...
...on the FASB proposal echoed the form vs. substance argument.
        "The fact that an identical **security** is not returned is no
different than a repurchase agreement transaction in which the borrower...
...at The Equitable.
        Under such circumstances, the lender collects the collateral and
buys a replacement **security** , he said. "If a repurchase agreement
transaction where the identical asset may not be returned...
...or whether it receives a substantially similar dollar back (i.e. a dollar
with a **different   serial   number** than the dollar loaned)."
        "We support the FASB's effort to clarify and eliminate
inconsistencies...
...sale treatment would not be appropriate since control has been
maintained as the exact same **security** is returned and that such a
transaction is, in fact, assuredly temporary," he said.

 20/3,K/4   **(Item 1 from file: 268)**
DIALOG(R)File 268:Banking Info Source
(c) 2004 ProQuest Info&Learning. All rts. reserv.
00140427
Security and its implications
Anonymous
Funds Transfer Report, p2-4, Jan 2, 1987 DOCUMENT TYPE: Newsletter
Article LANGUAGE: English RECORD TYPE: Abstract
ABSTRACT: Encryption and authentication are important aspects of **security**
 in electronic networks. Data sent electronically is subject to passive
listening in and attempts to **change** the data, unless **security** measures
are **set** up. **Serial   numbering** of messages is a simple technique that
helps ensure that the same message is not...

...data transmitted electronically may be subject to "hackers and tappers"
who listen to and/or **change** the data and learn financial strategy or
commit fraud. Sheer volume of data and of...

25/8/3   (Item 3 from file: 47)
DIALOG(R)File 47:(c) 2004 The Gale group. All rts. reserv.
02670079   SUPPLIER NUMBER: 03621471   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**The first of a breed; Christian Sharp's rifles helped tame America's wild
  frontier and put the breechloader in business for keeps.**
Feb, 1985
WORD COUNT: 1878   LINE COUNT: 00140
 SPECIAL FEATURES: illustration; photograph
 DESCRIPTORS: Sharps rifle--History; Gunsmiths--Biography; Rifles--History
 BIOGRAPHEE: Sharp, Christain--Biography

25/8/4   (Item 4 from file: 47)
DIALOG(R)File 47:(c) 2004 The Gale group. All rts. reserv.
02668136   SUPPLIER NUMBER: 03621405   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Glimmers of hope; the sagging micro software market may get a shot in the
  arm as vendors cobble up multi-user packages for networking.**
Feb 1, 1985
WORD COUNT: 1755   LINE COUNT: 00139
 COMPANY NAMES: Microsoft Corp.--Management
 DESCRIPTORS: InfoCorp.--Reports; Microcomputers--Computer programs;
  Computer software industry--Management; Local area networks--Computer
  programs
 NAMED PERSONS: Lefkowits, Bob--Attitudes; Nikora, Leo--Attitudes
 SIC CODES: 7372   Prepackaged software

25/8/6   (Item 6 from file: 47)
DIALOG(R)File 47:(c) 2004 The Gale group. All rts. reserv.
02802168   SUPPLIER NUMBER: 04199240   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Sacco and Vanzetti: the case resolved. (book reviews)
April 7, 1986
WORD COUNT: 2953   LINE COUNT: 00234
 DESCRIPTORS: Books--Reviews; Sacco-Vanzetti case--Bibliography
 REVIEWEE: Russell, Francis
 GRADE: A

25/8/7   (Item 7 from file: 47)
DIALOG(R)File 47:(c) 2004 The Gale group. All rts. reserv.
03019476   SUPPLIER NUMBER: 06008089   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**More fax in your future. (Related articles: Fax speeds orders for parts
  distributor. Flexible deliveries due to fax.)**
Sept, 1987
WORD COUNT: 2165   LINE COUNT: 00173
 SPECIAL FEATURES: illustration; photograph

25/8/12   (Item 12 from file: 47)
DIALOG(R)File 47:(c) 2004 The Gale group. All rts. reserv.
03148173   SUPPLIER NUMBER: 06959457   (USE FORMAT 7 OR 9 FOR FULL TEXT)
PC support thrives via remote control. (buyers guide)
Sept 5, 1988
WORD COUNT: 1882   LINE COUNT: 00145
 SPECIAL FEATURES: illustration; table
 DESCRIPTORS: Connectivity--Computer programs; Software--Maintenance and

repair
SIC CODES: 7372   Prepackaged software

25/8/13   (Item 13 from file: 47)
DIALOG(R)File 47:(c) 2004 The Gale group. All rts. reserv.
03161343   SUPPLIER NUMBER: 07017645   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**As the word turns. (word processing for the Macintosh) (Software Review)
   (evaluation)**
Nov, 1988
WORD COUNT: 1862   LINE COUNT: 00141
 SPECIAL FEATURES: illustration; photograph
 COMPANY NAMES: WordPerfect Corp.--Products; Microsoft Corp.--Products;
  Ann Arbor Softworks Inc.--Products; Claris Corp.--Products; MindWork
  Software--Products; T/Maker Co.--Products
 DESCRIPTORS: Word processing software--Evaluation
 SIC CODES: 7372 Prepackaged software
 TICKER SYMBOLS: MSFT; AAPL
 TRADE NAMES: Apple Macintosh (680X0-based system)--evaluation; FullWrite
  Professional (Word processing software)--evaluation; MindWrite 2.0 (Word
  processing software)--evaluation; Microsoft Word 3.02 (Word processing
  software)--evaluation; WordPerfect for Macintosh 1.0.1 (Word processing
  software)--evaluation; WriteNow 2.0 (Word processing software)--
  evaluation; Microsoft Write (Word processing software)--evaluation;
  MacWrite 5.0 (Word processing software)--evaluation

25/8/14   (Item 14 from file: 635)
DIALOG(R)File 635:(c) 2004 ProQuest Info&Learning. All rts. reserv.
0106141 89-30034
Plane-Builder's Dream Never Quite Takes Off
PUBL DATE: 890821
WORD COUNT: 993
DATELINE: Billings, MT, US
CLASSIFICATION CODES: 8680 (Transportation equipment industry); 2130
    (Executives)
DESCRIPTORS: Aircraft industry; Entrepreneurs; Product testing; Industrial
    plants; Personal profiles; Educators; Mountain
NAMED PERSONS: Green, A. B.; Schlaht, John; Larson, Larry
SPECIAL FEATURE: Photo

25/8/21   (Item 21 from file: 608)
DIALOG(R)File 608:(c)2004 Knight Ridder/Tribune Bus News. All rts. reserv.
00151893   Story Number: 11959   (USE FORMAT 7 OR 9 FOR FULLTEXT)
CABLE TELEVISION INDUSTRY TRIES TO TUNE MINDSETS, TV SETS TO HIGH-TECH
June 14, 1993
WORD COUNT: 1380

25/8/23   (Item 23 from file: 47)
DIALOG(R)File 47:(c) 2004 The Gale group. All rts. reserv.
04127200   SUPPLIER NUMBER: 15604901   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**The Brickyard 400, a race to remember: stock cars race at the Indianapolis
   Motor Speedway. (includes related article)**
August, 1994
WORD COUNT: 1601   LINE COUNT: 00113
 SPECIAL FEATURES: illustration; photograph
 DESCRIPTORS: Stock car racing--Competitions; Indianapolis Motor Speedway
  --Competitions

25/8/25   (Item 25 from file: 47)
DIALOG(R)File   47:(c) 2004 The Gale group. All rts. reserv.
04633241   SUPPLIER NUMBER: 17446858   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Crystal structure of the MATa1/MATalpha2 homeodomain heterodimer bound to DNA.
Oct 13, 1995
WORD COUNT: 6410   LINE COUNT: 00490
 SPECIAL FEATURES: illustration; table; chart
 DESCRIPTORS: DNA binding proteins--Research; Crystallography--Research;
 Genetic transcription--Research

25/8/27   (Item 27 from file: 47)
DIALOG(R)File   47:(c) 2004 The Gale group. All rts. reserv.
04509912   SUPPLIER NUMBER: 18289431   (USE FORMAT 7 OR 9 FOR FULL TEXT)
U.S. periodical price index for 1996.
May, 1996
WORD COUNT: 2483   LINE COUNT: 00198
 SPECIAL FEATURES: illustration; table
 DESCRIPTORS: Periodicals--Prices and rates; Periodical publishing--Prices
 and rates; Library materials--Prices and rates

25/8/29   (Item 29 from file: 608)
DIALOG(R)File 608:(c)2004 Knight Ridder/Tribune Bus News. All rts. reserv.
555822   Story Number: 9573   (USE FORMAT 7 OR 9 FOR FULLTEXT)
BOND EXPERT OFFERS ADVICE FOR BOND OWNERS
Apr 17, 1997
WORD COUNT: 0342
COMPANY NAMES: Federal Reserve Banks ; Knight Ridder/Tribune Business
 News
DESCRIPTORS: Banking, Economy, Personal Finance, Stocks

25/8/31   (Item 31 from file: 47)
DIALOG(R)File   47:(c) 2004 The Gale group. All rts. reserv.
05214708   SUPPLIER NUMBER: 20297341   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Visual access tools for special collections.
Sep, 1997
WORD COUNT: 4332   LINE COUNT: 00365
 DESCRIPTORS: Cataloging of special collections in libraries--Computer
 programs

25/8/32   (Item 32 from file: 80)
DIALOG(R)File   80:(c) 2004 The Gale Group. All rts. reserv.
01397649   Supplier Number: 48190714   (USE FORMAT 7 FOR FULLTEXT)
French Minetac update set for Turkish minehunters
Dec 22, 1997
Word Count: 677
PUBLISHER NAME: King Publishing
COMPANY NAMES: *DCN Ruelle
EVENT NAMES: *960   (International politics); 330   (Product information)
GEOGRAPHIC NAMES: *7TURK (Turkey)
PRODUCT NAMES: *3662574   (Anti-Mine Sonar)
INDUSTRY NAMES: AERO (Aerospace and Defense); BUSN (Any type of business)
NAICS CODES: 334511 (Search, Detection, Navigation, Guidance,
 Aeronautical, and Nautical System and Instrument Manufacturing)
TRADE NAMES: Minetac

25/8/34   (Item 34 from file: 635)
DIALOG(R)File 635:(c) 2004 ProQuest Info&Learning. All rts. reserv.
0985018 99-47853
$5M glides into fraud software firm
PUBL DATE: 980911
WORD COUNT: 731
DATELINE: Austin, TX, US, Southwest
COMPANY NAMES: Infoglide Corp, Austin, TX, US, SIC:7372,
CLASSIFICATION CODES: 8302 (Software and computer services); 7500 (Product
    planning & development)
DESCRIPTORS: Software industry; Insurance fraud; Funding; Product
    development; Corporate profiles
SPECIAL FEATURE: Photo

25/8/35   (Item 35 from file: 47)
DIALOG(R)File 47:(c) 2004 The Gale group. All rts. reserv.
05301362   SUPPLIER NUMBER: 53588590   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Chromosome 2 Sequence of the Human Malaria Parasite Plasmodium falciparum.
Nov 6, 1998
WORD COUNT: 5905   LINE COUNT: 00556
 DESCRIPTORS: Plasmodium falciparum--Research; Malaria--Research

25/8/39   (Item 39 from file: 80)
DIALOG(R)File 80:(c) 2004 The Gale Group. All rts. reserv.
01434050   Supplier Number: 54615135 (USE FORMAT 7 FOR FULLTEXT)
Engine Values Remain Solid.
May 10, 1999
Word Count: 571
PUBLISHER NAME: Cowles-SIMBA Information
EVENT NAMES: *740 (Commodity & service prices)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *3724000   (Aircraft Engines & Parts)
INDUSTRY NAMES: AERO (Aerospace and Defense); BUSN (Any type of business
NAICS CODES: 336412 (Aircraft Engine and Engine Parts Manufacturing)

25/8/40   (Item 40 from file: 80)
DIALOG(R)File 80:(c) 2004 The Gale Group. All rts. reserv.
01457939   Supplier Number: 60897656 (USE FORMAT 7 FOR FULLTEXT)
The Custom Handguns Of D&L Sports.(Brief Article)
May, 2000
Word Count: 1662
PUBLISHER NAME: Publishers' Development Corporation
COMPANY NAMES: *D and L Sports
EVENT NAMES: *330 (Product information)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *3484230   (Pistols & Revolvers)
INDUSTRY NAMES: BUSN (Any type of business)
SIC CODES: 3484 (Small arms)
NAICS CODES: 332994 (Small Arms Manufacturing)
ADVERTISING CODES: 57   New Products/Services

25/8/41   (Item 41 from file: 47)
DIALOG(R)File 47:(c) 2004 The Gale group. All rts. reserv.
05807722   SUPPLIER NUMBER: 62498237   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Home Wired Home.(News Briefs)

June, 2000
WORD COUNT: 5684   LINE COUNT: 00566

25/3,K/1   (Item 1 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2004 The Gale group. All rts. reserv.
02365133   SUPPLIER NUMBER: 02781690   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Georg Cantor and the origins of transfinite set theory.
Dauben, Joseph W.
Scientific American, v248, p122(10)
June, 1983
CODEN: SLAMA   DOCUMENT TYPE: biography   ISSN: 0036-8733
LANGUAGE: ENGLISH   RECORD TYPE: FULLTEXT
WORD COUNT: 7622   LINE COUNT: 00582
...   roots are irrationa.) Because the legitimacy of the rational
numbers was not in question, Cantor **followed** an approach suggested by
Karl Weierstrass, one of his former teachers at the University of Berlin.
Cantor porposed that any irrational number could be represented by an
infinite **sequence** of rational **numbers** . The **number** square root **2** ,
for example, can be represented by the infinite sequence of rational
numbers 1, 1.4...

25/3,K/2   (Item 2 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2004 The Gale group. All rts. reserv.
02512043   SUPPLIER NUMBER: 03143580   (USE FORMAT 7 OR 9 FOR FULL TEXT)
A switching-hitting portable. (evaluation)
Smith, Stephen P.
PC Magazine, v3, p243(5)
Feb 21, 1984
DOCUMENT TYPE: evaluation   LANGUAGE: ENGLISH   RECORD TYPE: FULLTEXT
WORD COUNT: 3194   LINE COUNT: 00246
... The problem lies in how powerful the Options program really is. In
addition to **changing** the display format, it specifies the system RAM
size, **sets** the **number** of **serial** and parallel ports, and alters the
color palettes. Options also allows permanent redirection of printer...

25/3,K/5   (Item 5 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2004 The Gale group. All rts. reserv.
02672143   SUPPLIER NUMBER: 00594837   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Legal Equalizers.
Harris, T.
PC Magazine, v4, n3, p299
Feb.5, 1985
DOCUMENT TYPE: evaluation   ISSN: 0888-8507   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1099   LINE COUNT: 00085
...   covers the main points. Coded Copying
     Although you can duplicate the program disks, the copy- **protection**
scheme requires that you contact the publisher to obtain a code number
during the initial...
...number, which seems to be a combination of your firm name and the
program's **serial   number** , is **different** for each user. And because the
firm name appears on most printouts, there is little...

25/3,K/8   (Item 8 from file: 47)
DIALOG(R)File   47:Gale Group Magazine DB(TM)
(c) 2004 The Gale group. All rts. reserv.
03007012   SUPPLIER NUMBER: 05171697   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Business communications. (special advertising section)
Evans, Sherli; Menkus, Belden; Portway, Patrick
Industry Week, v234, pBC1(11)
Sept 7, 1987
CODEN: IWEEA   ISSN: 0039-0895   LANGUAGE: ENGLISH   RECORD TYPE:
   FULLTEXT
WORD COUNT: 5385   LINE COUNT: 00439
...   by thermal transfer or laser; memory for storing telephone numbers;
polling for lowest phone rates; **security** mail boxes for classified
information; automatic dialing; **alternate** phone **number** options;
unattended **sequential** polling; and Group IV upgrade capability. Xerox
Corporation, Rochester, NY, believes that plain paper is...

25/3,K/9 .   (Item 9 from file: 47)
DIALOG(R)File   47:Gale Group Magazine DB(TM)
(c) 2004 The Gale group. All rts. reserv.
03020064   SUPPLIER NUMBER: 06142980   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Mainframe world is secure without copy protection. (Section 2:
   Connectivity) (column)
Mohen, Joe
PC Week, v4, n47, pC6(1)
Nov 24, 1987
DOCUMENT TYPE: column   ISSN: 0740-1604   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 809   LINE COUNT: 00060
...   software were used, it would be detected eventually.
     It is also very easy to copy **protect** a mainframe-software package.
Each IBM host has a **serial number set** into the hardware that cannot
be altered. A user program can issue an Assembler language...

25/3,K/10   (Item 10 from file: 47)
DIALOG(R)File   47:Gale Group Magazine DB(TM)
(c) 2004 The Gale group. All rts. reserv.
03083729   SUPPLIER NUMBER: 06553233   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Paradox. (Software Review) (one of 43 evaluations of programmable
   relational database managers) (evaluation)
Poor, Alfred
PC Magazine, v7, n9, p209
May 17, 1988
DOCUMENT TYPE: evaluation   ISSN: 0888-8507   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1429   LINE COUNT: 00107
...   as seven 3-1/2-inch disks in the same package.
     Paradox is not copy **protected** , but you must initialize the program
with the package serial number--which, paradoxically, is not the serial
number on the label of the package! Paradox programs have **two   serial**
numbers , and it took a while for me to realize that the real one was
hiding...

25/3,K/11   (Item 11 from file: 47)
DIALOG(R)File   47:Gale Group Magazine DB(TM)
(c) 2004 The Gale group. All rts. reserv.

03146659   SUPPLIER NUMBER: 06736277   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Projects between the sheets. (Microsoft Excel as a database manager)
   (includes related article on using Excel macro capabilities)
Elam, Sandra
MacUser, v4, n7, p234(8)
July, 1988
ISSN: 0884-0997   LANGUAGE: ENGLISH   RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 4943   LINE COUNT: 00374
...   new lines to the database, remember to renumber your Sequence
Number column with a new **sequential   series** of **numbers** (using the
SERIES command). Doing this will assign new sequence numbers to some of
the requirements each time the database is **updated** . If you want to keep
the same sequence numbers throughout the life of a project...
...for deleted requirements. This kind of numbering scheme can lead to
problems, though, as the **following** example illustrates.
      In the hair-dryer database, suppose you add two new requirements to
the...

  25/3,K/15   (Item 15 from file: 47)
DIALOG(R)File   47:Gale Group Magazine DB(TM)
(c) 2004 The Gale group. All rts. reserv.
03387454   SUPPLIER NUMBER: 08261980   (USE FORMAT 7 OR 9 FOR FULL TEXT)
ProfitWISE. (Software Review) (one of five evaluations of low-end
   accounting software)(TLB Inc.) (evaluation)
August, Raymond A.; Jicha, Barbara; Reed, David; White, Thomas
PC Magazine, v9, n7, p223(3)
April 10, 1990
DOCUMENT TYPE: evaluation   ISSN: 0888-8507   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 833   LINE COUNT: 00068
...   if sufficient quantities of items are unavailable, back orders are
created.
      The Inventory module automatically **updates** the general ledger and
calculates cost of goods sold. The inventory master files allow you to
define up to three warehouse locations, register lot or **serial   numbers** ,
and maintain **two** suppliers and part numbers per item. The inventory trial
balance maintains an excellent detail listing...

  25/3,K/16   (Item 16 from file: 47)
DIALOG(R)File   47:Gale Group Magazine DB(TM)
(c) 2004 The Gale group. All rts. reserv.
03456983   SUPPLIER NUMBER: 08680674   (USE FORMAT 7 OR 9 FOR FULL TEXT)
XcelleNet 1.2 provides WAN connections. (Software Review) (OS/2-based
   networking software) (evaluation)
Fratus, John; Graeff, Alan; Preuss, Don
PC Week, v7, n30, p87(2)
July 30, 1990
DOCUMENT TYPE: evaluation   ISSN: 0740-1604   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1780   LINE COUNT: 00139
...   network -- data transfer and E-mail.
      The Network Manager portion of the product is copy- **protected** and
requires a hardware key attached to the parallel port of the computer. The
X/Node software is not copy- **protected** , but will not operate with a copy
of Network Manager that has a **different   serial   number** .
      XcelleNet Inc. introduced three new optional software modules with

XcelleNet 1.2. X/Workstation, priced...

25/3,K/17   (Item 17 from file: 47)
DIALOG(R)File   47:Gale Group Magazine DB(TM)
(c) 2004 The Gale group. All rts. reserv.
03608875   SUPPLIER NUMBER: 10895208   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**DOS 5.0 (Microsoft Corp.'s improved operating system)(includes related
  articles on DOS 5.0 for Windows and on DOS 5.0 and Norton Utilities 6.0)
  (part 1) (Cover Story)**
Somerson, Paul
PC-Computing, v4, n7, p97(17)
July, 1991
DOCUMENT TYPE: Cover Story   ISSN: 0899-1847   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 7717   LINE COUNT: 00570
...   invoked.
     COMMAND.COM stores the INT 10 instruction in a sort of shorthand
notation as **two   successive** hex **numbers** , CD 10. To find this pair of
hex numbers, first use DEBUG'S RCX command...
...the Enter key twice to tell DEBUG you want to look at the length, not
change it). Next, use the DEBUG S command to start searching from the
beginning of the...

25/3,K/18   (Item 18 from file: 635)
DIALOG(R)File 635:Business Dateline(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.
0227372 91-50372
16 Charged in Computer Racketeering
Edelman, Lawrence
Boston Globe (Boston, MA, US), V240 N17 s1 p1
PUBL DATE: 910717
WORD COUNT: 1,005
DATELINE: Boston, MA, US
TEXT:
     ...worth of the stolen parts were shipped to a California computer
parts company, The Moore **Group** , where **serial   numbers** were **changed**
and other modifications made before they were resold. Another $2.2 million
in gear was...

25/3,K/19   (Item 19 from file: 635)
DIALOG(R)File 635:Business Dateline(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.
0237904 91-61790
Cellular Glitch Enables Crooks to Call for Free
Urlocker, Mike
Financial Post (Toronto, ONT, Canada), V4 N121 s1 p32
PUBL DATE: 910903
WORD COUNT: 655
DATELINE: Toronto, ONT, Canada
TEXT:
     ... The most prevalent method is called "tumbling" because the modified
phone tumbles through a **different** , illegitimate **serial   number** for
each call. Tumblers prey upon a weakness in cellular **security** systems
that allows out-of-town visitors to use their phones in territories served
by...

25/3,K/20   (Item 20 from file: 47)
DIALOG(R)File   47:Gale Group Magazine DB(TM)
(c) 2004 The Gale group. All rts. reserv.
03807139   SUPPLIER NUMBER: 13218058   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Why cybercrooks love cellular. (cellular telephones provide opportunity for
   telephone criminals)**
Flanagan, William G.; McMenamin, Brigid
Forbes, v150, n14, p189(1)
Dec 21, 1992
ISSN: 0015-6914   LANGUAGE: ENGLISH   RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 524   LINE COUNT: 00039
...ABSTRACT: because at the moment it is impossible to prevent these
crimes. Each cellular telephone has **two** identifying **numbers** , called an
electronic **serial   number** (ESN) and a mobile identification number
(MIN), for billing and verification. The two methods for criminals to use
the numbers are tumbling and cloning. Tumbling uses a personal computer to
change the numbers after each call. Cellular telephones are by nature
mobile, and calls made from...

25/3,K/22   (Item 22 from file: 47)
DIALOG(R)File   47:Gale Group Magazine DB(TM)
(c) 2004 The Gale group. All rts. reserv.
04034260   SUPPLIER NUMBER: 14621628   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Q&A. (question-and-answer) (includes related article)
PC-Computing, v7, n1, p270(2)
Jan, 1994
ISSN: 0899-1847   LANGUAGE: ENGLISH   RECORD TYPE: FULLTEXT
WORD COUNT: 1351   LINE COUNT: 00101
...   command to omit or erase the serial number once formatting is
complete, but you can **set** the **serial   number** to zero using DEBUG. This
DEBUG script--executed at the hyphen prompt after you start-- **c**hanges   the
serial number on the disk in drive A: to zero:
     L 0 0 0...
...0 0 0 1 to W 0 1 0 1. You don't have to **set** the **serial   number** to
zero--you can set it to any value you want. For example, **changing** the
line
     E 27 0 0 0 0
     to read
     E 27 78 56 34...

25/3,K/26   (Item 26 from file: 47)
DIALOG(R)File   47:Gale Group Magazine DB(TM)
(c) 2004 The Gale group. All rts. reserv.
04476403   SUPPLIER NUMBER: 18205043   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**User-to-user. (increasing productivity by modifying serial numbers with
   batch files, and managing the Windows 95 menu) (PC Solutions) (Question
   and Answer)(Column)**
Rubenking, Neil J.
PC Magazine, v15, n8, p221(2)
April 23, 1996
DOCUMENT TYPE: Column   ISSN: 0888-8507   LANGUAGE: English
RECORD TYPE: Fulltext
WORD COUNT: 1215   LINE COUNT: 00112
...   BIOS Parameter Block. The next four bytes hold the serial number.
If this marker is **changed** to 00, the serial number is no longer
recognized. The batch file does not overwrite the **serial   number** itself.

The **number** DOS **sets** is nearly random. If you'd like to have well-ordered serial numbers, NUSERIAL.BAT...

25/3,K/28   (Item 28 from file: 608)
DIALOG(R)File 608:KR/T Bus.News.
(c)2004 Knight Ridder/Tribune Bus News. All rts. reserv.
00349415   Story Number: 8510   (USE FORMAT 7 OR 9 FOR FULLTEXT)
TECHNOLOGY CAN CUT PRICE OF VIGILANCE AGAINST CHIP FRAUD
Dean Takahashi
San Jose Mercury News
July 8, 1996 03:45 E.T.
DOCUMENT TYPE: Newspaper   RECORD TYPE: Fulltext   LANGUAGE: English
WORD COUNT: 588
...TEXT: it more difficult for counterfeiters to etch quality names on less-than-quality products.
     Putting **serial   numbers** on TV **sets** gave police a phenomenal tool for tracking stolen goods a couple of decades ago. Large...
...but chips had been considered too small and numerous to be individually tracked after they **change** hands more than twice. This left thieves free to remark chips, or etch false labels...

25/3,K/33   (Item 33 from file: 608)
DIALOG(R)File 608:KR/T Bus.News.
(c)2004 Knight Ridder/Tribune Bus News. All rts. reserv.
06569675   (USE FORMAT 7 OR 9 FOR FULLTEXT)
The Miami Herald CyberGuide Column
Dan Keating
The Miami Herald
July 02, 1998
DOCUMENT TYPE: NEWSPAPER   RECORD TYPE: FULLTEXT   LANGUAGE: ENGLISH
WORD COUNT: 1131
...TEXT: the upside-down exclamation point with alt-173.
     Some DOS and Windows programs use a **different   numbering   sequence** .
If the **numbers** above don't work in a program you are using, try the
following : alt-0241 for TILDE over lower-case n, alt-0233 for accent over lower case...

25/3,K/36   (Item 36 from file: 608)
DIALOG(R)File 608:KR/T Bus.News.
(c)2004 Knight Ridder/Tribune Bus News. All rts. reserv.
06634564   (USE FORMAT 7 OR 9 FOR FULLTEXT)
Some High-Tech Advances Erode Right to Privacy
Steven Oberbeck
Salt Lake Tribune
February 06, 1999
DOCUMENT TYPE: NEWSPAPER   RECORD TYPE: FULLTEXT   LANGUAGE: ENGLISH
WORD COUNT: 638
...TEXT: buying habits. It allows companies to engage in target marketing aimed at either reinforcing or **changing** buying decisions. And once the information is gathered, there is nothing to stop it from...
...Internet.
Threatened with a boycott, Intel backed off, saying the chips would be shipped with **serial - number** technology automatically **set** to the off position...

25/3,K/37   (Item 37 from file: 608)

DIALOG(R)File 608:KR/T Bus.News.
(c)2004 Knight Ridder/Tribune Bus News. All rts. reserv.
06643260   (USE FORMAT 7 OR 9 FOR FULLTEXT)
Houston Chronicle Computing Column
Dwight Silverman
Houston Chronicle
March 05, 1999
DOCUMENT TYPE: NEWSPAPER   RECORD TYPE: FULLTEXT   LANGUAGE: ENGLISH
WORD COUNT: 838
...TEXT: II chips had similar problems.
Now we have the Pentium III, with its built-in **serial   number** that
privacy **groups** say amounts to "Big Brother Inside." And there's the fact
that the Pentium III...
...Pentium II, with 70 extra software commands to boost multimedia
performance.
After looking at the **following** two high-end Pentium III systems, I can
say they're impressive -- as any system...
...with the Pentium III serial number turned off. To turn it back on, you
must **change** BIOS settings.
Pavilion 8940 -- $2,500, Hewlett-Packard. This consumer-oriented PC comes
with plenty...

 25/3,K/38   **(Item 38 from file: 47)**
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2004 The Gale group. All rts. reserv.
05317639   SUPPLIER NUMBER: 53947448   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Chip IDs: Nothing Personal.(Intel's Pentium III microprocessor)(Product
  Information)(Column)**
Machrone, Bill
PC Magazine, 85(1)
March 23, 1999
DOCUMENT TYPE: Column   ISSN: 0888-8507   LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 833   LINE COUNT: 00067
ABSTRACT: Intel's Pentium III microprocessor has generated controversy
because each chip incorporates a unique **serial   number** . Civil-liberties
groups and other privacy advocates reacted to news of this fact with
alarm. People were anxious...
...fact, PSN numbers, or something like them, could probably function as a
basis for a **secure** transaction system.

```
File  34:SciSearch(R) Cited Ref Sci 1990-2004/Jan W4
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
File 169:Insurance Periodicals 1984-1999/Nov 15
File  63:Transport Res(TRIS) 1970-2004/Dec
File   8:Ei Compendex(R) 1970-2004/Jan W3
File  94:JICST-EPlus 1985-2004/Jan W3
File   6:NTIS 1964-2004/Jan W4
File 139:EconLit 1969-2004/Jan
Set     Items   Description
S1    2560512   NUMBER??? OR NUMERAL? ? OR NUMERIC?
S2    1639549   SEQUENC??? OR SEQUENT? OR SERIAL? OR CONSECUTIV? OR SUCCES-
                  SION? ? OR SUCCESSIVE? OR SUBSEQUENT OR SUCCEED??? OR SUCCEDE-
                NT
S3    4198226   DOUBLE OR PAIR? ? OR SET OR SETS OR SERIES OR GROUP? ?
S4    2316941   ALTERNATE OR DIFFERENT
S5    3855074   TWO
S6    5769987   2
S7    4510511   UPDAT??? OR CHANG??? OR ADVANC??? OR FORWARD??? OR FOLLOW?-
                ??
S8     894224   SECUR??? OR SURETY OR SAFEGUARD??? OR PROTECT???
S9      11185   S1(2N)S2
S10     33814   S1(2N)S3
S11     30340   S1(2N)S4
S12     24714   S1(2N)S5
S13     28028   S1(2N)S6
S14       420   S9(3N)S10:S13
S15        90   S14 AND S7
S16         7   S14 AND S8
S17         4   S15 AND S16
S18         3   RD (unique items)
S19        89   S15:S16 NOT S17
S20        86   RD (unique items)
S21        13   S20/2001:2004
S22        73   S20 NOT S21
S23        77   S14(S)S7
S24         5   S14(S)S8
S25        59   S22 AND S23:S24
S26        59   Sort S25/ALL/PY,A
```

 18/6/1   (Item 1 from file: 8)
03368472
   Title: Effects of fatigue and heat stress on vigilance of workers in
protective **clothing.**
   Conference Title: Proceedings of the Human Factors Society 35th Annual
Meeting Part 1 (of 2)
   Publication Year: 1991

 18/6/2   (Item 1 from file: 6)
1691638 NTIS Accession Number: AD-A256 257/7
   Annotated Bibliography on Relative Motion
   (Final rept. 13 Mar 91-13 Mar 92)
   Aug 92

 18/6/3   (Item 1 from file: 139)
329807
TITLE: Why Did Economic Models Falsely Predict a Bush Landslide in 1992?

PUBLICATION DATE: 1994

26/6/1   (Item 1 from file: 6)
0122928   NTIS Accession Number: AD-656 375/XAB
  Rural Wire and Urban Wire for Telephone Distribution Systems
  Dec 55

26/6/2   (Item 2 from file: 6)
0243496   NTIS Accession Number: AD-806 446/XAB
  Synchronized Budding of Yeast Cells Following **X-Irradiation**
  22 Oct 58

26/6/3   (Item 3 from file: 63)
00184801   DA
TITLE: INDEX TO MODEL AND EXPANDED RESISTANCE DATA SHEETS NO. 1-175
PUBLICATION DATE: 19660300
DATA SOURCE: Society of Naval Architects and Marine Engineers

26/6/4   (Item 4 from file: 63)
00098774   DA
TITLE: TRACTION MOTOR RELIABILITY
PUBLICATION DATE: 19690000
DATA SOURCE: American Railway Engineering Association

26/6/5   (Item 5 from file: 6)
0231679   NTIS Accession Number: PB-192 220/XAB
  Guide to Research in Air Pollution: Projects Active in Calendar Year 1969
  (7th ed)
  Apr 70

26/6/8   (Item 8 from file: 63)
00051880   DA
**TITLE: SUGGESTED ARC-WELDING PROCEDURES FOR STEELS MEETING STANDARD
     SPECIFICATIONS**
PUBLICATION DATE: 19740100
DATA SOURCE: Welding Research Council

26/6/13   (Item 13 from file: 8)
00993462
   Title: **Asynchronous Pole-** Changing **Motors with Three Phase Switch-Over
Winding.**
   Title: SILNIKI ZMIENNOBIEGUNOWE ASYNCHRONICZNE Z UZWOJENIAMI TROJFAZOWYMI
PRZELACZALNYMI.
  Publication Year: 1980

26/6/14   (Item 14 from file: 6)
0986603   NTIS Accession Number: PB82-251224/XAB
  **Catalog of Government Patents. Volume 1: Chemical and Related Arts
1966-74**
  c1981

26/6/15   (Item 15 from file: 6)
0986584   NTIS Accession Number: PB82-197070/XAB
  **Catalog of Government Patents. Volume 4: Abstracts 1975-80. Volume 5:
Indexes 1975-80**
  c1982

26/6/16   **(Item 16 from file: 8)**
01864949
   Title: IMPULSIVE NOISE SIMULATOR FOR THE LABORATORY TESTING OF RADIO COMMUNICATION SYSTEMS.
   Conference   Title: 1984 IEEE National Symposium on Electromagnetic Compatibility.
   Publication Year: 1984

26/6/17   **(Item 17 from file: 8)**
02269631
   Title: EXPERIMENTAL STUDY ON PRESSURE DROP AND HEAT TRANSFER IN A DUCT WITH A STAGGERED ARRAY OF CYLINDERS.
   Conference   Title: Proceedings of the 1987 ASME-JSME Thermal Engineering Joint Conference.
   Publication Year: 1987

26/6/18   **(Item 18 from file: 8)**
02622140
   Title: WATER INTERFERENCE OF PULSED FLUORESCENCE SO//2 MONITOR.
   Publication Year: 1988

26/6/19   **(Item 19 from file: 94)**
00904578   JICST ACCESSION NUMBER: 89A0310495   FILE SEGMENT: JICST-E
Initial phase of bronchial wall invasion of roentgenographically occult
   lung cancer., 1988

26/6/20   **(Item 20 from file: 94)**
00748769   JICST ACCESSION NUMBER: 89A0477436   FILE SEGMENT: JICST-E
Decomposition and reassembly of the age-time distribution., 1989

26/6/21   **(Item 21 from file: 6)**
1550485 NTIS Accession Number: DE91001876
   Improvements for variance stabilizer on LANL FN tandem
   1990

26/6/22   **(Item 22 from file: 94)**
01459862   JICST ACCESSION NUMBER: 92A0131878   FILE SEGMENT: JICST-E
Development of the "Title Change Map for Union Catalog of Serials": From
   the Map for Japanese serials to the Map for European language serials.
, 1991

26/6/23   **(Item 23 from file: 94)**
01694491   JICST ACCESSION NUMBER: 92A0830792   FILE SEGMENT: JICST-E
Disorders of Calculation using Figures in Brain-Damaged Patients., 1992

26/6/24   **(Item 24 from file: 6)**
1658639 NTIS Accession Number: AD-A251 032/9
   Molecular Studies of Alphavirus Immunogenicity
   (Annual rept. 30 Mar 91-29 Mar 92)
   23 Apr 92

26/6/25   **(Item 25 from file: 94)**
01658407   JICST ACCESSION NUMBER: 92A0723684   FILE SEGMENT: JICST-E
Depressed cerebral function on caloric stimulation of the labyrinth., 1992

26/6/26   (Item 26 from file: 34)
02225037   Genuine Article#: KL408   Number of References: 11
Title: PRODUCING FROZEN-SECTIONS OF CALCIFIED BONE   (Abstract Available)

26/6/27   . (Item 27 from file: 94)
01899731   JICST ACCESSION NUMBER: 93A0847148   FILE SEGMENT: JICST-E
Numerical Simulation and Experiment of Excitation-Contraction Coupling of
Skeletal Muscle., 1993

26/6/28   (Item 28 from file: 34)
03891754   Genuine Article#: QN394   Number of References: 0 .
Title: PHYLLOTACTIC PATTERNS IN CAPITULA OF CARLINA-ACAULIS L   (Abstract

26/6/29   (Item 29 from file: 34)
03024540   Genuine Article#: NA737   Number of References: 17
Title: THE STABILITY OF IMPLODING DETONATIONS - RESULTS OF NUMERICAL
SIMULATIONS   (Abstract Available)

26/6/30   (Item 30 from file: 34)
05035149   Genuine Article#: TK493   Number of References: 23
Title: COMPARISON OF SIMULATED ANNEALING ALGORITHMS FOR CONFORMAL THERAPY
TREATMENT PLANNING   (Abstract Available)

26/6/32   (Item 32 from file: 34)
04145130   Genuine Article#: RH808   Number of References: 21
Title: GENE CONVERSION VS POINT MUTATION IN GENERATING VARIABILITY AT THE
ANTIGEN RECOGNITION SITE OF MAJOR HISTOCOMPATIBILITY COMPLEX LOCI   (

26/6/33   (Item 33 from file: 34)
04139062   Genuine Article#: RG965   Number of References: 39
Title: DO ADAPTATIONS IN SERIAL SARCOMERE NUMBER OCCUR WITH STRENGTH
TRAINING   (Abstract Available)

26/6/34   (Item 34 from file: 34)
04059827   Genuine Article#: RB169   Number of References: 29
Title: AT LEAST 4 MHC CLASS-I GENES ARE TRANSCRIBED IN THE HORSE -
PHYLOGENETIC ANALYSIS SUGGESTS AN UNUSUAL EVOLUTIONARY HISTORY FOR THE
MHC IN THIS SPECIES   (Abstract Available)

26/6/35   (Item 35 from file: 94)
02133124   JICST ACCESSION NUMBER: 95A0525461   FILE SEGMENT: PreJICST-E
Relationship between genic sequences of tRNA genes from bacteria and their
classification., 1995

26/6/36   (Item 36 from file: 34)
05433109   Genuine Article#: VY011   Number of References: 24
Title: EVOLUTION OF CARDIAC RHABDOMYOMA IN TUBEROUS SCLEROSIS COMPLEX   (

26/6/37   (Item 37 from file: 34)
05327372   Genuine Article#: VQ359   Number of References: 12
Title: ON THE CHANGES OF RATE CONSTANTS AND ACTIVATION-ENERGIES DURING
CATALYTIC REACTIONS - DECOMPOSITION OF NAOCL AND H2O2   (Abstract

26/6/38   (Item 38 from file: 34)
05154838   Genuine Article#: VD790   Number of References: 13
Title: OLEIC-ACID AND LINOLEIC-ACID ARE THE MAJOR DETERMINANTS OF CHANGES

IN KERATINOCYTE PLASMA-MEMBRANE VISCOSITY   (Abstract Available)

26/6/39   (Item 39 from file: 34)
06468340   Genuine Article#: YV371   Number of References: 27
Title: **Characterization of phage-displayed recombinant anti-idiotypic**
     antibody fragments against coronavirus-neutralizing monoclonal
     antibodies (ABSTRACT AVAILABLE)
Publication date: 19970000

26/6/40   (Item 40 from file: 34)
05986003   Genuine Article#: XM039   Number of References: 25
Title: **Behavior of rats under fixed consecutive number schedules: Effects**
     of drugs of abuse (ABSTRACT AVAILABLE)
Publication date: 19970700

26/6/41   (Item 41 from file: 34)
05985996   Genuine Article#: XM039   Number of References: 21
Title: **Increasing the variability of response sequences in pigeons by**
     adjusting the frequency of switching between two keys (ABSTRACT
Publication date: 19970700

26/6/42   (Item 42 from file: 34)
05839027   Genuine Article#: XA983   Number of References: 15
Title: **Effect of topiramate on attention** (ABSTRACT AVAILABLE)
Publication date: 19970400

26/6/43   (Item 43 from file: 34)
05634352   Genuine Article#: WM188   Number of References: 43
Title: **Evolutionary distances between nucleotide sequences based on the**
     distribution of substitution rates among sites as estimated by
     parsimony (ABSTRACT AVAILABLE)
Publication date: 19970300

26/6/44   (Item 44 from file: 34)
05560784   Genuine Article#: WG766   Number of References: 25
Title: **Systematic identification of twins by computerised searches of NHS**
     patient registers in the UK (ABSTRACT AVAILABLE)
Publication date: 19970200

26/6/45   (Item 45 from file: 6)
2012228 NTIS Accession Number: PB97-179725
  United States Congressional Serial Set **Catalog:** Numerical **Lists and**
Schedule of Volumes. 102nd Congress: 1991-1992 Entries and Indexes
   1997

26/6/46   (Item 46 from file: 34)
07363984   Genuine Article#: 156CJ   Number of References: 34
Title: **Partial stress drop and frictional overshoot mechanism of seismic**
     events induced by mining (ABSTRACT AVAILABLE)
Publication date: 19981200

26/6/47   (Item 47 from file: 34)
07343345   Genuine Article#: 152ZM   Number of References: 40
Title: **Direct investigations of reactions of 2-butoxy radicals using laser**
     pulse initiated oxidation: Reaction with O-2 and unimolecular
     decomposition at 293 K and 50 mbar (ABSTRACT AVAILABLE)

Publication date: 19981200

26/6/49   **(Item 49 from file: 34)**
07948526   Genuine Article#: 227NX   Number of References: 31
Title: **Ontogenetic variation of phyllotaxis and apex geometry in vegetative**
     shoots of Sedum maximum (L.) Hoffm.   (ABSTRACT AVAILABLE)
Publication date: 19990000

26/6/50   **(Item 50 from file: 34)**
07887877   Genuine Article#: 219UE   Number of References: 29
Title: **Ribosomal small subunit sequence variation within spores of an**
     arbuscular mycorrhizal fungus, Scutellospora sp.   (ABSTRACT AVAILABLE)
Publication date: 19990600

26/6/51   **(Item 51 from file: 34)**
07439642   Genuine Article#: 165ZM   Number of References: 36
Title: **Percutaneous mechanical mitral commissurotomy with a newly designed**
     metallic valvulotome - Immediate results of the initial experience in
     153 patients   (ABSTRACT AVAILABLE)
Publication date: 19990216

26/6/52   **(Item 52 from file: 8)**
05759761
  Title: **New generation of IR thermometers. Part 2: Trends and developments**
enhancing the power of IR thermometers
  Publication Year: 1999

26/6/54   **(Item 54 from file: 34)**
09333726   Genuine Article#: 393WK   Number of References: 16
Title: **A spherical rotation coordinate system for the description of**
     three-dimensional joint rotations   (ABSTRACT AVAILABLE)
Publication date: 20001100

26/6/55   **(Item 55 from file: 34)**
08935086   Genuine Article#: 346VF   Number of References: 31
Title: **Transient spine density increases in the mid-molecular layer of**
     hippocampal dentate gyrus accompany consolidation of a spatial learning
     task in the rodent   (ABSTRACT AVAILABLE)
Publication date: 20000000

26/6/56   **(Item 56 from file: 34)**
08749100   Genuine Article#: 325EE   Number of References: 55
Title: **Cerebral activation during multiplication: A functional MR imaging**
     study of number processing   (ABSTRACT AVAILABLE)
Publication date: 20000600

26/6/59   **(Item 59 from file: 139)**
040010
TITLE: **ESRC Data Archive catalogue: Study descriptions and Guide and**
     indexes, 1986. 2 vols
 PUBLICATION DATE: 1986

26/7,K/6   **(Item 6 from file: 6)**
DIALOG(R)File   6:NTIS
(c) 2004 NTIS, Intl Cpyrght All Rights Res. All rts. reserv.
0356295 NTIS Accession Number: AD-751 937/XAB

Techniques for Determining the Vehicle Attitude of Rocket AH7.886
Sullivan, B. F. ; Stick, M. E. ; Marcou, R. J.
Boston Coll Chestnut Hill Mass Space Data Analysis Lab
Corp. Source Codes: 403460
Report No.: SCIENTIFIC-1; AFCRL-72-0575
30 Aug 72   41p
Journal Announcement: GRAI7302
    Order   this   product   from   NTIS   by: phone   at   1-800-553-NTIS   (U.S.
customers);   (703)605-6000   (other   countries);   fax   at   (703)321-8547; and
email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road,
Springfield, VA, 22161, USA.
    NTIS Prices: PC A03/MF A01
    Contract No.: F19628-70-C-0017
    Techniques   for   determining   the   attitude   of   the   rocket   axis for the
vehicle   AH7.886   are   discussed. The attitude system consisted of a set of
triaxial   Schonstedt   magnetometers, a Spectra-Physics sun sensor, **serial
 number**   2065- **2** , and an electronic multiplexer. Since no voltage greater
than   3.24   volts   was outputted by this multiplexer system, the sun angles
could   not   be   determined   whenever   the   3.24   volt   saturation level was
reached.   To   determine   the   attitude   of the AH7.886 vehicle axis without
available   sun   sensor   data   three   different   techniques   were   used, all
yielding   similar   results.   The   first   uses   the   rate of **change** of the
magnetometers   to solve for the attitude; the second simulates the attitude
once   an   angle   between   the   sun   and rocket axis is known; and the third
approach   simulates   the   attitude after assuming sinusoidal motion for the
elevation angle   of   the   lateral   magnetometer   and   full   magnetic field
readings by the lateral magnetometer for one-half a spin period. (Author)

  26/7,K/9   (Item 9 from file: 6)
DIALOG(R)File   6:NTIS
(c) 2004 NTIS, Intl Cpyrght All Rights Res. All rts. reserv.
0517214   NTIS Accession Number: AD-A014 771/0/XAB
    **Evaluation of Discrete Semiconductor Specifications. Volume 2. Diodes and
Transistors Slash Sheets**
    (Final rept. Mar-Nov 74)
    Fanzoi, A. H. ; Brown, D. E.
    Sperry Rand Corp Salt Lake City Utah UNIVAC Defense Systems Div
    Corp. Source Codes: 390713
    Sponsor: Rome Air Development Center, Griffiss AFB, N.Y.
    Report No.: RADC-TR-75-154-VOL-2
    Jun 75   475p
    Journal Announcement: GRAI7523
    See also Volume 1 dated Jun 75, AD-A014 770.
    Order   this   product   from   NTIS   by: phone   at   1-800-553-NTIS   (U.S.
customers);   (703)605-6000   (other   countries);   fax   at   (703)321-8547; and
email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road,
Springfield, VA, 22161, USA.
    NTIS Prices: PC A20/MF A01
    Contract No.: F30602-74-C-0149; AF-5519; 551904
    The   various device types recommended for Air Force equipments design are
listed   in   tables   preceding   the   specific   recommendations for the slash
sheets   upgrading.   These   recommendations   are   in   the   form of proposed
improved   or   new slash sheets for the selected devices. The sheets specify
requirements, tests, characteristics, and include other recommendations for
  updating   . The detail specification slash sheets are presented in groups
  following   the applicable Report Table and are arranged within the **group**

in **numerical** **sequence** . The device type identification and general
specification MIL-S-19500 slash sheet numbers are shown in the tables and
as the reference identification in the heading of each sheet. This
arrangement simplifies reference to the general characteristics of the
devices in a manner that provides a common basis for recognition by
technical personnel.

26/7,K/10   **(Item 10 from file: 8)**
DIALOG(R)File   8:Ei Compendex(R)
(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.
00476217   E.I. Monthly No: EI7508053356   E.I. Yearly No: EI75045139
   Title: **COMPUTER ANALYSIS OF MULTICIRCUIT SHELLS OF REVOLUTION BY THE**
FIELD METHOD.
   Author: Cohen, Gerald A.
   Corporate Source: Struct Res Assoc, Laguna Beach, Calif
   Source: NASA Contract Rep CR-2535 Jun 1975, 50 p
   Publication Year: 1975
   CODEN: NSCRAQ   ISSN: 0565-7059
   Language: ENGLISH
   Journal Announcement: 7508
   Abstract: The " field method " , presented previously for the solution of
even-order linear boundary-value problems defined on one-dimensional open
branch domains (i. e. , trees), is extended to boundary-value problems
defined on one-dimensional domains containing circuits (i. e. ,
multicircuit graphs). This method converts the boundary-value problem into
two **successive** **numerically** stable initial-value problems, which may be
solved by standard **forward** integration techniques. In addition, a new
method for the treatment of singular boundary conditions (i. e. , kinematic
constraints) is presented. This method, which amounts to a (partial)
interchange of the roles of " force " and " displacement " variables, is
problem independent with respect to both accuracy and speed of execution. 7
refs.

26/7,K/11   **(Item 11 from file: 8)**
DIALOG(R)File   8:Ei Compendex(R)
(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.
00639332   E.I. Monthly No: EI7707047647   E.I. Yearly No: EI77022495
   Title: **ANALYSIS OF MULTICIRCUIT SHELLS OF REVOLUTION BY THE FIELD METHOD.**
   Author: Cohen, Gerald A.
   Corporate Source: Struct Res Assoc, Laguna Beach, Calif
   Source: Computer Methods in Applied Mechanics and Engineering v 8 n 3
Jul-Aug 1976 p 301-318
   Publication Year: 1976
   CODEN: CMMECC   ISSN: 0374-2830
   Language: ENGLISH
   Journal Announcement: 7707
   Abstract: The field method, presented previously for the solution of
linear boundary-value problems defined on one-dimensional open branch
domains, is extended to one-dimensional domains which contain circuits.
This method converts the boundary-value problem into **two** **successive**
numerically stable initial-value problems, which may be solved by standard
 forward integration techniques. Also presented is a new treatment of
singular boundary conditions (kinematic constraints). This is problem
independent with respect to both accuracy and efficiency. The method has
been implemented in a computer program which calculates the asymmetric
response of ring-stiffened orthotropic multi-circuit shells of revolution.

26/7,K/31   (Item 31 from file: 34)
DIALOG(R)File   34:SciSearch(R) Cited Ref Sci
04340113   Genuine Article#: RW712   Number of References: 17
Title: ORTHOGONAL POLYNOMIALS AND COHERENT PAIRS - THE CLASSICAL CASE
Author(s): MARCELLAN F; PETRONILHO J
Corporate Source: UNIV CARLOS III,ESCUELA POLITECN SUPER,DEPT INGN/E-28913
    LEGANES//SPAIN/; UNIV COIMBRA,FCTUC,DEPT MATEMAT/P-3000
    COIMBRA//PORTUGAL/
Journal: INDAGATIONES MATHEMATICAE-NEW SERIES, 1995, V6, N3 (SEP 25), P
    287-307
ISSN: 0019-3577
Language: ENGLISH   Document Type: ARTICLE
Abstract: Let $\{P_n(x)\}$ (n greater than or equal to 0) and $\{R(n)(x)\}$ (n
    greater than or equal to 0) be two sequences of simple monic
    polynomials such that
        (*) $P_n(x) = 1/n+1 R'(n+1)(x) - \text{sigma}(n)R'(n)(x)$, n=0,1,2,...
        where $\{\text{sigma}(n)\}$ (n greater than or equal to 0) is a **sequence** of
complex **numbers** . Consider the **two following** problems: (i) if
$\{R(n)\}$ (n greater than or equal to 0) is a given system of orthogonal
polynomials, to characterize all the sequences of orthogonal
polynomials $\{P_n\}$ (n greater than or equal to 0) and all the sequences
of compatible parameters $\{\text{sigma}(n)\}$ (n greater than or equal to 0) for
which (*) holds; (ii) the analogous problem, with the assumption that
$\{P_n\}$ (n greater than or equal to 0) is the given system of orthogonal
polynomials. The first problem has been partially solved by Iserles et
al. in [6], in the case in which $\{R(n)\}$ (n greater than or equal to 0)
is a classical family. Here, we characterize the solution for both
problems in the case in which the given system is some classical one.

26/7,K/48   (Item 48 from file: 34)
DIALOG(R)File   34:SciSearch(R) Cited Ref Sci
06543877   Genuine Article#: ZA268   Number of References: 11
Title: Two ergodic sample-path properties of the Poisson process
Author(s): Stadje W (REPRINT)
Corporate Source: UNIV OSNABRUCK,FB 6/D-49069 OSNABRUCK//GERMANY/ (REPRINT)
Journal: JOURNAL OF THEORETICAL PROBABILITY, 1998, V11, N1 (JAN), P197-208
ISSN: 0894-9840   Publication date: 19980100
Publisher: PLENUM PUBL CORP, 233 SPRING ST, NEW YORK, NY 10013
Language: English   Document Type: ARTICLE
Abstract: For increasing **sequences**0 of real **numbers** we consider **two**
    types of asymptotic behavior that remind of the defining property of a
    (homogeneous) Poisson process according to which the numbers of points
    in disjoint intervals are independent and **follow** Poisson
    distributions with specified parameters. We prove that almost all paths
    of a Poisson process show this asymptotic behavior, and characterize
    the Poisson process by these properties. Further wit discuss the
    connection to equidistribution notions.

26/7,K/53   (Item 53 from file: 94)
DIALOG(R)File   94:JICST-EPlus
04377526   JICST ACCESSION NUMBER: 99A0732441   FILE SEGMENT: JICST-E
Incremental Construction of Ad-Hoc Network.

TOSAKI TAKASHI (1); KAWAGUCHI NOBUO (1); TOYAMA KATSUHIKO (1); INAGAKI
    YASUYOSHI (1)
(1) Nagoya Univ., Grad. Sch.
Joho Shori Gakkai Shinpojiumu Ronbunshu, 1999, VOL.99,NO.7, PAGE.261-266,
    FIG.3, TBL.4, REF.10
JOURNAL NUMBER: Y0978BAT   ISSN NO: 1344-0640
UNIVERSAL DECIMAL CLASSIFICATION: 681.3:654   621.396.73
LANGUAGE: Japanese   COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Conference Proceeding
ARTICLE TYPE: Original paper
MEDIA TYPE: Printed Publication

ABSTRACT: In this paper, we propose an incremental construction method for
    ad-hoc networks based on infrared communication. Each mobile host
    periodically probes other hosts while exchanging messages between known
    hosts. When a host discovers new neighbor hosts, it exchanges the
    updated node information with all neighbor hosts. Node information
    contains **two** **sequential** **numbers** which avoid the looping and the
    updating problems, and it is piggybacked onto messages to decrease the
    time costs required for each infrared connection. (author abst.)

26/7,K/58   **(Item 58 from file: 34)**
DIALOG(R)File   34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.
08654014   Genuine Article#: 312FB   Number of References: 18
Title: Event-related brain potentials elicited by a number discrimination
       task

Author(s): Kong JA (REPRINT) ; Wang YP; Zhang WT; Wang HJ; Wei HF; Shang HY
    ; Yang XZ; Zhuang D
Corporate Source: CHINA ACAD TRADIT CHINESE MED,INST ACUPUNCTURE &
    MOXIBUST/BEIJING 100700//PEOPLES R CHINA/ (REPRINT); CAPITAL UNIV MED
    SCI,XUANWU HOSP, DEPT NEUROL/BEIJING 100053//PEOPLES R CHINA/; CHINESE
    ACAD SCI,INST PSYCHOL/BEIJING 100012//PEOPLES R CHINA/

Abstract: To study the number cognition process, we recorded event-related
    potentials (ERPs) in 14 subjects when they were indicating whether a
    number pair was the same or not. The **two** **numbers** given in **sequence**
    were either the same (condition 1) or different (condition 2). After
    270 ms **following** the onset of the second stimulus in condition 2, a
    negative component N270 was recorded on the scalp with the most
    negative amplitude at the central and occipital areas. Hemispheric
    asymmetry was not observed in the potential. This negative component is
    considered to reflect the mismatching process for numbers in the brain.
    NeuroReport 11:1195-1197 (C) 2000 Lippincott Williams & Wilkins.

```
File   35:Dissertation Abs Online 1861-2004/Dec
File  583:Gale Group Globalbase(TM) 1986-2002/Dec 13
File   65:Inside Conferences 1993-2004/Jan W4
File    2:INSPEC 1969-2004/Jan W3
File  233:Internet & Personal Comp. Abs. 1981-2003/Sep
File  474:New York Times Abs 1969-2004/Jan 26
File  475:Wall Street Journal Abs 1973-2004/Jan 26
File   99:Wilson Appl. Sci & Tech Abs 1983-2004/Dec
File  256:SoftBase:Reviews,Companies&Prods. 82-2004/Dec
Set      Items    Description
S1          42    CASH()CONTROL????
S2       51764    SAFE OR SAFES OR CASHBOX OR CASHBOXES OR CASH()REGISTER? ?
S3      878606    SEQUEN? OR CONSECUTIV? OR SUCCESSIV? OR SUCCESSION? OR SUC-
                    CEEDING OR NEXT OR SUBSEQUENT?
S4      906286    FOLLOW???
S5     1677356    NUMBER?? OR NUMERICR?
S6           2    S1 AND S2
S7           1    RD (unique items)
S8        1299    S3()S5 OR S4(N)S5
S9           8    S2 AND S8
S10          8    S9 NOT S6
S11          7    RD (unique items)
S12          1    S11/2001:2004
S13          6    S11 NOT S12
S14          6    Sort S13/ALL/PY,A
S15          0    S8 AND S1
S16        644    CASH(5N)CONTROL????
S17          0    S8 AND S16
S18         30    S2 AND S16
S19          4    S3:S4 AND S18
S20          4    RD (unique items)
```

7/7/1.   **(Item 1 from file: 2)**
DIALOG(R)File   2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.
01017850   INSPEC Abstract **Number**: C77007070
 Title: Cash   control **system for commerce**
   Journal: Buerotechnik   vol.24, no.11   p.68
   Publication Date: Nov. 1976 Country of Publication: West Germany
   CODEN: BUERDN
   Language: German   Document Type: Journal Paper (JP)
   Treatment: Applications (A); Economic aspects (E); Practical (P)
   Abstract: The article describes the Nixdorf 8862 EDP system especially
designed for controlling cash receipts or similar transactions from several
points. The three main components are an 'intelligent' **cash   register**
type 8812, an 'intelligent' visual display unit at the cash point and the
central unit associated with a 'manager' terminal. The latter is used to
regulate general features such as start/stop operations, date and time,
currency conversion, etc. Individual terminals deal with transactions for
goods and service sales, cash flow, etc. and include an alpha**numericr**
keyboard. (0 Refs)
   Subfile: C

 14/6/1   **(Item 1 from file: 2)**
01749982   INSPEC Abstract **Number**: B81047271
 Title: Design choices for selective-repeat retransmission protocols

Publication Date: July 1981

14/6/2   (Item 2 from file: 2)
03617728   INSPEC Abstract **Number**: B90030976, C90034561
 Title: Verified data transfer protocols with variable flow control
  Publication Date: Aug. 1989

20/7,K/1   (Item 1 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
(c) 2002 The Gale Group. All rts. reserv.
06133173
LE BON MARCHE OPTIMISE SON ENCAISSEMENT
  FRANCE: BON MARCHE'S NEW **CASH   REGISTER** SYSTEM
01 Informatique (ZH)   24 Feb 1995 p.25
Language: FRENCH
In France, the Bon Marche department stores has invested FFr 15mn in a new
 cash   register system, with 200 IBM **cash   registers** . It will make it
possible to carry out a detailed **follow** up of operations throughout the
day, such as the impact of a promotion, or the turnover of a product or a
department. The   **cash   registers** are connected to seven PS/2 personal
computers. Each manages a group of **cash   registers** , **controls** the till
collection, and manages customer files. The entire system is connected to
an AS/400 were base information is stored. This new system can handle a
total of 350 **cash   registers** .

20/7,K/2   (Item 2 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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04568125
La Sweda si riorganizza e archivia il primo semestre '91 in/
  ITALY – SWEDA SEES CONTINUED GROWTH
Sole 24 Ore (ISO)   8 October 1991 p27
Language: Italian
Sweda (Italy),   **cash   register** and industrials company **controlled** by
the Cameli-Gerolimich group, reports first-half 1991 turnover of L20 bil
from **cash   register** activities with exports to Greece and Hungary up
 following the recent introduction of obligatory till receipts in retail
outlets. Sweda expects to post a 1991 turnover of L40 bil for **cash
register** activities, assisted by the 20-25% upturn in the domestic **cash
register** market due to replacement of the tills acquired in 1982-82 when till
receipts were made compulsory. Sweda is to invest some L11 bil in 1991.**

20/7,K/3   (Item 3 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
(c) 2002 The Gale Group. All rts. reserv.
04274776
NEC LAUNCHES REGIPORT ECR
  JAPAN – NEC LAUNCHES REGIPORT ECR
Office Equipment & Products (OEP)   0 May 1991 p29
ISSN: 0387-5245
NEC has launched the Regiport PC-RG120, intelligent electronic **cash
register** , targetted at **controlling** operations in small-scale stores.
The register includes a 3.5 inch floppy disk drive, and versions are
available with communication functions and bar code scanner, which can be
connected to a PC-9800 for sales data control. NEC foreacsts 20k unit sales
over the **next** two years.

```
File  15:ABI/Inform(R) 1971-2004/Jan 27
File   9:Business & Industry(R) Jul/1994-2004/Jan 26
File 610:Business Wire 1999-2004/Jan 27
File 810:Business Wire 1986-1999/Feb 28
File 613:PR Newswire 1999-2004/Jan 27
File 813:PR Newswire 1987-1999/Apr 30
File 476:Financial Times Fulltext 1982-2004/Jan 27
File 624:McGraw-Hill Publications 1985-2004/Jan 26
File 636:Gale Group Newsletter DB(TM) 1987-2004/Jan 26
File 634:San Jose Mercury  Jun 1985-2004/Jan 26
File  20:Dialog Global Reporter 1997-2004/Jan 27
```

Set	Items	Description
S1	1114	CASH()CONTROL????
S2	1216043	SAFE OR SAFES OR CASHBOX OR CASHBOXES OR CASH()REGISTER? ?
S3	7984290	**SEQUEN**? OR CONSECUTIV? OR **SUCCESSIV**? OR **SUCCESS**ION? OR SUC-CEEDING OR NEXT OR **SUBSEQUENT**?
S4	6921023	FOLLOW???
S5	7070653	**NUMBER**?? OR **NUMERICR**?
S6	. 47	S1(S)S2
S7	16382	S3()S5 OR S4(N)S5
S8	0	S6(S)S7
S9	63	S2(S)S7
S10	0	S1(S)S7
S11	15890	CASH(5N)CONTROL????
S12	**1**	**S9(S)S11 [too recent]**
S13	4	S7(S)S11
S14	3	S13 NOT S12
S15	**3**	**RD (unique items)**
S16	62	S9 NOT S12:S13
S17	57	RD (unique items)
S18	45	S17/2001:2004
S19	12	S17 NOT S18
S20	**12**	**Sort S19/ALL/PD,A**
S21	48635	S2/DE
S22	1	S9 AND S21
S23	0	S22 NOT S16
S24	1	S2/TI AND S9
S25	0	S24 NOT S16
S26	1	S11/TI,DE AND S7
S27	**1**	**S26 NOT (S12 OR S13 OR S16)**
S28	655357	DEPOSIT? ?
S29	62	S7(S)S28
S30	59	S29 NOT (S12 OR S13 OR S16 OR S26)
S31	53	RD (unique items)
S32	32	S31/2001:2004
S33	21	S31 NOT S32
S34	**21**	**Sort S33/ALL/PD,A**
S35	2764675	CASH
S36	23	S7(5N)S35
S37	21	S36 NOT (S12 OR S13 OR S16 OR S26 OR S29)
S38	21	RD (unique items)
S39	7	S38/2001:2004
S40	14	S38 NOT S39
S41	**14**	**Sort S40/ALL/PD,A**

```
15/3,AB,K/1      (Item 1 from file: 15)
```

DIALOG(R)File   15:ABI/Inform(R)
00524070 90-49827
Make Room for Your CU's Growth
Lanphear, Sue
Credit Union Magazine v56n11 PP: 62-65 Nov 1990 ISSN: 0011-1066
JRNL CODE: CUG
ABSTRACT: Construction and automation can help credit unions service their
members more efficiently. For example, Fitzsimons Federal Credit Union
(Aurora, Colorado) built a service center away from its main branch to make
it easier for members to make transactions. At IBM Hudson Valley Employees
Credit Union (Poughkeepsie, New York), the first off-site branch was opened
for the same reason. Today, the IBM credit union serves 90,000 members from
6 main branches and 7 satellite branches on sponsors' premises. Both
Fitzsimons and IBM Hudson store all records at their main branch, with the
outlying centers connected by terminals to a main computer. While building
service centers is desirable, it may not always be the best answer for
growth; instead, it may be better to rearrange the current office or
automation.   For a teller workstation, automation includes the ability to
control   cash , print receipts, audit trails, and **sequence   numbers** .
Free-standing automated terminals - or automated teller machines - offer an
option for expanding without having to build.

20/8/8   (Item 8 from file: 610)
DIALOG(R)File 610:(c) 2004 Business Wire. All rts. reserv.
00241957 20000327087B1307   (USE FORMAT 7 FOR FULLTEXT)
**(GBLX) Global Crossing Teams Up With I-Link; Agreement Allows I-Link to
Become First Company Ever to Offer One-Touch Internet Calling from Home
Phones Not PCs**
Monday, March 27, 2000 09:03 EDT
WORD COUNT: 1,068
COMPANY NAMES: i-link, inc.; global crossing ltd.; I LINK INC; MEDCROSS
   INC; LANS; FITZGERALD COMMUNICATIONS INC
GEOGRAPHIC NAMES: NEW YORK; USA; AMERICAS; NORTH AMERICA
INDUSTRY NAMES: COMMUNICATIONS SOFTWARE; CORPORATE NETWORKS; ELECTRONIC
   MAIL; INTERNET; NETWORKS; TELECOMMUNICATIONS; TELEPHONES; COMMUNICATIONS
   TECHNOLOGIES; COMPUTER SOFTWARE; COMPUTERS; CORPORATE; DATA
   COMMUNICATIONS

20/8/9   (Item 9 from file: 610)
DIALOG(R)File 610:(c) 2004 Business Wire. All rts. reserv.
00260573 20000419110B0692   (USE FORMAT 7 FOR FULLTEXT)
**I-Link's V-Link 3.0 Named Product of the Year; Enhanced Service Platform
Receives Network Magazine Award to be Presented At NetWorld + Interop**
Wednesday, April 19, 2000 12:21 EDT
WORD COUNT: 785
COMPANY NAMES: i-link, inc.; I LINK INC; MEDCROSS INC; FITZGERALD
   COMMUNICATIONS INC; INTERNET TODAY
INDUSTRY NAMES: COMMUNICATIONS SOFTWARE; COMPUTER SOFTWARE; CORPORATE
   NETWORKS; ELECTRONIC MAIL; INTERNET; NETWORKS; TELECOMMUNICATIONS;
   TELEPHONES; COMMUNICATIONS TECHNOLOGIES; COMPUTERS; CORPORATE; DATA
   COMMUNICATIONS
EVENT NAMES: SERVICES

20/8/12   (Item 12 from file: 15)
DIALOG(R)File   15:(c) 2004 ProQuest Info&Learning. All rts. reserv.

00094854 79-09865
In Praise of Bulk Filing of Checks
DESCRIPTORS: Bank management; Bulk; Filing systems; Files management ;
    Checks
CLASSIFICATION CODES: 8100 (CN=Financial services industry); 5200
    (CN=Communications & information management)

 20/3,AB,K/1   (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.
00366590 87-25424
Confessions of a Bank Con Man
Blank, Dennis
Bankers Monthly v104n6 PP: 32-36 Jun 1987 ISSN: 0005-5476 JRNL CODE:
BKM
ABSTRACT: Frank W. Abagnale has successfully posed as an airline pilot, a
doctor, a bank guard, and a lawyer. During a 5-year period, he cashed over
$2.5 million worth of bad checks in all 50 states and 26 foreign countries.
Today, Abagnale is a leading authority on credit card fraud, bad checks,
money-changing scams, and phony IDs. His multimillion-dollar-a-year
business provides fail- **safe** security systems for major stores and banks.
According to Abagnale, check deposit slips are of great value to con
artists. Deposit slips enable the con artists to make a deposit using a
phony check. Part of the check is deposited, part is returned as cash. Many
check forgers never run into trouble because the tellers fail to check the
signature. Tellers should examine checks to make sure that at least one
side is perforated. They should also learn to read the routing code in the
9 **consecutive numbers** inside 2 brackets at the bottom left-hand corner
of the check.

 20/3,AB,K/3   (Item 3 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.
00604803 92-19906
Cashing In on CCTV Technology
Norton, Kelly
Security Management Supplement PP: 26A-29A Mar 1992 ISSN: 0145-9406
JRNL CODE: SEM
WORD COUNT: 1964
ABSTRACT: Closed circuit television (CCTV) is being used as an integral
part of convenience store security programs. Many c-stores have installed
CCTV systems with interactive video and audio (IAVA) to deter robbery and
increase employee safety. Using IAVA, the retailer has the capability to
communicate, monitor, and record audio and video activity in the store
selectively from a remote central alarm monitoring location. The IAVA
communications can be initiated either by an employee activating an alarm
or by the central station dialing the store. While IAVA is an effective
monitoring tool to deter robbery and supervise store operations, the 50%
loss in picture quality that occurs during IAVA transmissions and its
inability to process color makes it less effective in documenting evidence
to control shrink. Color recording is beneficial because it provides more
information on a subject's appearance. In addition to color recording,
retailers are relying more on CCTV electronic cash register interfacing to
combat internal shrink.
...TEXT: each shift.
The **number** assigned to a particular event is a combination of event type,

cash   register   number, and   sequential   number   of the event. Exhibit 3
is an example of an event **number** assignment. (Exhibit 3...

   20/3,AB,K/4   **(Item 4 from file: 15)**
DIALOG(R)File   15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.
01195622   98-45017
Totem: A fault-tolerant multicast group communication system
Moser,   L   E;   Agarwal,   D   A;   Melliar-Smith   P   M;   Budhia,   R   K;
Lingley-Papadopoulos,   C A
Communications of the ACM   v39n4   PP: 54-63   Apr 1996   ISSN: 0001-0782
JRNL CODE: ACM
WORD COUNT: 5827
ABSTRACT: The Totem system, developed at the University of California,
Santa Barbara, provides reliable, totally ordered multicasting of messages
over local area networks and exploits the hardware broadcasts of such
networks to achieve high performance. Total ordering of messages simplifies
the programming of fault-tolerant distributed applications. If distributed
operations are derived from the same messages in the same total order,
consistency of replicated information is easier to maintain. Simplified
programming results in fewer programming errors and increased reliability
for the application. Totem is intended for complex applications in which
both fault tolerance and real-time performance are critical. Such complex
applications are typically built as asynchronous event-driven distributed
systems. The types of applications that can benefit from Totem include: 1.
air traffic control, 2. industrial automation, 3. transaction processing
and 4. banking.
...TEXT: aru, of the token enables a processor to determine, after a full
token rotation, a   **sequence   number** so that all processors on the ring
have received all messages with lower **sequence   numbers** . A processor can
deliver a message as a **safe** message if the **sequence   number** of the
message is less than or equal to this **sequence   number** . When a processor
delivers a message as **safe** , it can reclaim the buffer space used by the
message because it will never need...

   27/3,AB,K/1   **(Item 1 from file: 810)**
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.
0362811   BW653
**COMPUTER ASSOCS: CA ships updated module for ACCPAC Plus Accounting; job
costing module provides more timely information, better** cash **flow** control
October 19, 1993
Byline: Business Editors & Computer Industry Writers
    ...corrected and posted, print and clear the posting journals
selectively based on system-assigned posting **sequence   numbers** , and
limit transactions posted by entering a posting cut-off date...

   34/8/4   **(Item 4 from file: 636)**
DIALOG(R)File 636:(c) 2004 The Gale Group. All rts. reserv.
01542222   Supplier **Number**: 42241156   (USE FORMAT 7 FOR FULLTEXT)
WEST PLAINS BANK PREPARES FOR '90s WITH SWITCH TO OPTICAL STORAGE
July 25, 1991
Word Count: 1289
PUBLISHER NAME: Phillips Business Information, Inc.
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office
   Automation)

34/8/11   (Item 11 from file: 636)
DIALOG(R)File 636:(c) 2004 The Gale Group. All rts. reserv.
02310729   Supplier **Number:** 44487551   (USE FORMAT 7 FOR FULLTEXT)
SAME-DAY SETTLEMENT PUSHING BANKS TO ECP
March 3, 1994
Word Count: 1641
PUBLISHER NAME: Phillips Business Information, Inc.
INDUSTRY NAMES: BUSN   (Any type of business); CMPT   (Computers and Office
   Automation)

34/8/12   (Item 12 from file: 636)
DIALOG(R)File 636:(c) 2004 The Gale Group. All rts. reserv.
02322441   Supplier **Number:** 44523926   (USE FORMAT 7 FOR FULLTEXT)
SAME-DAY SETTLEMENT IMPACT: WILL THE NOVOCAINE WEAR OFF?
March 18, 1994
Word Count: 590
PUBLISHER NAME: Phillips Business Information, Inc.
INDUSTRY NAMES: BANK   (Banking, Finance and Accounting); BUSN   (Any type
   of business)

34/8/13   (Item 13 from file: 15)
DIALOG(R)File 15:(c) 2004 ProQuest Info&Learning. All rts. reserv.
00979154 96-28547   **USE FORMAT 9 FOR FULL TEXT**
A shopper's guide to accounting software   WORD COUNT: 8725   LENGTH: 18
 Pages
Feb 1995
GEOGRAPHIC NAMES: US
DESCRIPTORS: Software reviews; Software packages; Automated accounting
    systems; CPAs; Purchasing; Manyproducts; Functions
CLASSIFICATION CODES: 9190 (CN=United States); 9120 (CN=Product specific);
    5240 (CN=Software & systems); 4110 (CN=Accountants); 5120
    (CN=Purchasing)

34/8/18   (Item 18 from file: 20)
DIALOG(R)File 20:(c) 2004 The Dialog Corp. All rts. reserv.
01533500
Khan panel report on harmonisation of banks
 SECTION TITLE: ECONOMY
April 25, 1998
WORD COUNT: 3793
COMPANY NAMES: Small Industries Development Bank of India (SIDBI)
DESCRIPTORS: Financial Sector Regulation; Derivatives
COUNTRY NAMES/CODES: India (IN)
REGIONS: South Asia; Asia
SIC CODES/DESCRIPTIONS: 9311 (Finance Taxation & Monetary Policy)

34/3,AB,K/3   (Item 3 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.
01374781   Supplier **Number:** 41713203
VONS UTILIZING ACH DEBIT CHECK CARD WITH PLANS TO ADD AUTOMATED CHECKOUT
Card News, v5, n23, p5
Dec 3, 1990
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Trade

Word Count: 594
... Most customers have opted to use the Vons card, which contains only a
sequential   number and not their name. They submit a **deposit** slip to Vons
with their bank account information, which then is processed in a host...

34/3,AB,K/5   (Item 5 from file: 15)
DIALOG(R)File   15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.
00605934 92-21037
Electronic Cash Concentration and Deposit Verification
Sultanik, H. Michael
Journal of Cash Management v12n2 PP: 54-59 Mar/Apr 1992 ISSN: 0731-1281
JRNL CODE: JCG
WORD COUNT: 2609
ABSTRACT: National Convenience Stores Inc.'s (NCS) use of automation to
reduce costs and streamline its cash concentration and deposit verification
processes is examined. NCS was suffering from a decentralized cash
concentration. In order to expedite the process of updating the general
ledger at NCS and centralize the cash concentration process, a programmed
Norand, hand-held, data entry device was installed in each store in 1988.
The manager of treasury operations designed software specifications and a
local programming company was hired to developed a PC-based package which
would allow the treasury department to handle the entire cash concentration
process using a PC. Another problem NCS suffered from was manual deposit
verification. Under electronic deposit verification, banks electronically
capture the amount of every deposit by store. This type of automation can
provide operations management with only exceptions, thereby streamlining
the process of addressing potential deposit losses.
...TEXT:
...Some banks can use the Magnetic Ink Character Recognition (MICR) line on
the **deposit** slip to identify and capture store **numbers** when numerous
stores **deposit** funds into one account. Some banks can also capture
sequence   numbers in the MICR line which can be used to match **deposit**
adjustments to specific **deposits** ...

34/3,AB,K/7   (Item 7 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.
01852000   Supplier **Number**: 43170036
THE NUTS AND BOLTS OF GETTING ECP OFF THE GROUND
Item Processing Report, v3, n14, pN/A
July 23, 1992
Language: English   Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 1085
...   when the paper and electronic checks are reconciled.
     The original bank of deposit (sending bank) **sequence   number** is
kept on file by the receiving bank in case the paper never arrives. Should
such a circumstance occur, the receiving bank can call the sending bank
with the missing **sequence   numbers** , and the sending bank can then
examine their microfilm and retrieval/archival systems.
     Software To...
...a look at how software on the market is handling this issue.
     One example of **sequence   number** assignment is J.D. Carreker's
(JDCA) CheckLink, which will automatically assign a **sequence   number** to
each ECP check received. Using this **number** CheckLink automatically tracks

each electronic check as it is sent to the bank's electronic demand **deposit** accounting (DDA) system. Also included is a module to allow immediate cross-referencing between all...

  34/3,AB,K/8   **(Item 8 from file: 15)**
DIALOG(R)File 15:ABI/Inform(R)
00654629 93-03850
Implementing Bank Consolidtaion and Automated Cash Mobilization
Sweeney, Dennis; Patterson, William S.
Journal of Cash Management v12n6 PP: 58-64 Nov/Dec 1992 ISSN: 0731-1281
JRNL CODE: JCG
WORD COUNT: 1828
ABSTRACT: In the typical scenario, a retailer maintains separate bank accounts for each store location and uses point-of-sale polling to provide the corporate cash manager with information relevant to cash concentration. There are several things wrong with this. For example, these store accounts must be manually reconciled each month, and deposits to these accounts must be manually verified. Accomplished manually, these processes are labor intensive, untimely, and fraught with problems. To attack the problem, PepsiCo Inc. recently organized a task force, which included members from corporate treasury and representatives from each of the company's 3 restaurant divisions: Pizza Hut, Taco Bell, and KFC. The existing system needed improvement, but each representative had different objectives. Together, the task force developed a plan for automating the deposit verification and bank-reconcilement functions that would support bank consolidation and provide timely information to minimize balances, improve mobilization, and reduce bank fees.
...TEXT: profit and loss without trying to specifically identify each charge.
* Endorse checks with store and **sequence** **numbers** so that NSF checks can be charged back to a specific store and/or **deposit** ticket.
* Try to balance the **number** of deposits per day based on the risk of...

  34/3,AB,K/10   **(Item 10 from file: 636)**
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
02185069   Supplier **Number**: 44122435
Banks Take A Knife To Their ATM Costs
Bank Network News, pN/A
Sept 27, 1993
Language: English   Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 1145
...   that task and have more experience in catching errors.
    Norwest has also targeted its ATM **deposit** -processing operations for changes, but has taken a different approach than NBD. Norwest is now printing a greater amount of information on their **deposit** envelopes from the ATM. Previously, only a transaction **sequence** **number** was printed on an ATM **deposit** envelope. A bank employee had to match this **number** against an audit tape to verify...

  34/3,AB,K/14   **(Item 14 from file: 15)**
DIALOG(R)File 15:ABI/Inform(R)
00974561 96-23954

The best ways to concentrate cash
Tollman, Stanley L
Corporate Cashflow v16n2 PP: 40-41 Feb 1995 ISSN: 1040-0311
JRNL CODE: CFL
WORD COUNT: 1644

ABSTRACT: As a follow-up to last month's discussion of cash concentration, 8 ways to move funds to a concentration account are discussed. These are: 1. wire transfers, which are the most expensive per transaction, 2. depository transfer checks, or paper instruments used to transfer funds between 2 bank accounts with common ownership, 3. automated clearing house (ACH) debits, a low-cost, electronic way to move funds, 4. anticipatory concentration, which may work well for companies whose deposits are largely cash and generally quite predictable, 5. zero-balanced accounts, which are supported by accounting systems that link different accounts within the same bank, 6. branch concentration accounts, which also rely on the concentration bank's demand deposit accounting system, 7. stock brokerage accounts, a low-cost alternative for a company with a money-market mutual fund account at a non-bank investment company, and 8. mail concentration, which is rarely used today except by companies with very low daily sales per location.
...TEXT: bank's DDA system. In the ZBA structure, multiple accounts are used to identify the **deposit** source (store **number**). In a branch concentration system, a store **number** and **sequence** **number** , preprinted on each **deposit** slip, identify the source of every **deposit** .
Dozens of retail locations can then use the same account, accomplishing the concentration and preserving...

34/3,AB,K/15   (Item 15 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
01038563 96-87956
Cash management for small businesses: The new profile
Connors, Leigh S
TMA Journal v15n3 PP: 42-46 May/Jun 1995 ISSN: 1080-1162 JRNL CODE: JCG
WORD COUNT: 1968

ABSTRACT: The days of the "mom and pop" operation are all but over. These small companies are being replaced by more sophisticated, more competitive and more automated organizations. To compete today, a small business must become as professional, competent and disciplined as a Fortune 500 company. The new small business has to take advantage of all available tools, including cash management services. The **number** of small businesses has increased by 50% over the last 5 years, making this market the growth sector of the 1990s. Several small companies which are effectively using cash management services are profiled.
...TEXT: significantly reducing the cost of funds transfers.
To assist Tiptop with the individual property reconcilements, **deposit** reconcilement was implemented; however, not in the traditional sense. In Tiptop's case, **deposit** tickets were encoded with **consecutive** **numbers** to be used for individual closings.
The benefits to Tiptop have been considerable. Tiptop can...

34/3,AB,K/16   (Item 16 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
02314728 6648859

The Paper Dragon
Anonymous
Banking Management v71n3 PP: 66 May/Jun 1995 ISSN: 1049-1775
JRNL CODE: BAD
ABSTRACT: Current counterfeit control measures include: 1. **deposit** agreements requiring the use of the bank's vendor when ordering checks, 2. software products which flag suspicious checks based on deviations from established ranges of **sequence numbers** , dollar amounts, and volume, and 3. reviewing MICR rejects before repairing them. The prevention of new-account fraud requires comprehensive account-opening procedure focused on knowing the customer. Banks should analyze previous losses in developing in-house early warning systems. Chemical Bank has put several such systems in place, including the Fraud Prevention System, a database of names and addresses of individuals and businesses previously identified as undesirable. A list of vendors that provide negative databases or other check fraud prevention tools is included.

34/3,AB,K/21 **(Item 21 from file: 15)**
DIALOG(R)File 15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.
02062775 59718773
Beyond account consolidation: Advanced account management choices for retailers
Dubyak, Beth A
Afp Exchange v20n3 PP: 62-66 Summer 2000 ISSN: 0731-1281 JRNL CODE: JCG
WORD COUNT: 2926
ABSTRACT: Today's retailers have many choices beyond account consolidation. Many are turning to **serial**ized deposit tickets, return check presentment and outsourcing to effectively manage their treasury operations. By consolidating accounts and selecting either a single account or shadow account structure, retail financial professionals can significantly enhance their deposit process.
...TEXT: use of fixed-length fields.
This is how it works. The store uses its own **deposit** tickets for its individual location. Each **deposit** ticket is **sequentially numbered** and encoded in the auxiliary onus field of the **deposit** ticket. For shadow accounts, the entire field is available. For single accounts...

41/3,AB,K/2 **(Item 2 from file: 15)**
DIALOG(R)File 15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.
02556276 254348901
Fraud auditing
Vanasco, Rocco R
Managerial Auditing Journal v13n1 PP: 4-71 1998 ISSN: 0268-6902
JRNL CODE: MAJ
WORD COUNT: 49489
ABSTRACT: This paper examines the role of professional associations, governmental agencies, and international accounting and auditing bodies in promulgating standards to deter and detect fraud, domestically and abroad. Specifically, it focuses on the role played by the US Securities and Exchange Commission (SEC), the American Institute of Certified Public Accountants (AICPA), the Institute of Internal Auditors (IIA), the Institute of Management Accountants (IMA), the Association of Certified Fraud Examiners (ACFE), the US Government Accounting Office (GAO), and

other national and foreign professional associations, in promulgating auditing standards and procedures to prevent fraud in financial statements and other white-collar crimes. It also examines several fraud cases and the impact of management and employee fraud on the various business sectors such as insurance, banking, health care, and manufacturing, as well as the role of management, the boards of directors, the audit committees, auditors, and fraud examiners and their liability in the fraud prevention and investigation.

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File 275:Gale Group Computer DB(TM) 1983-2004/Jan 26
File 621:Gale Group New Prod.Annou.(R) 1985-2004/Jan 26
File  16:Gale Group PROMT(R) 1990-2004/Jan 26
File 160:Gale Group PROMT(R) 1972-1989
File 148:Gale Group Trade & Industry DB 1976-2004/Jan 26
Set     Items    Description
S1         935    CASH()CONTROL????
S2      866372    SAFE OR SAFES OR CASHBOX OR CASHBOXES OR CASH()REGISTER? ?
S3     4009508    SEQUEN? OR CONSECUTIV? OR SUCCESSIV? OR SUCCESSION? OR SUC-
                  CEEDING OR NEXT OR SUBSEQUENT?
S4     3305772    FOLLOW???
S5     4230636    NUMBER?? OR NUMERICR?
S6        8816    (ARMOURED OR ARMORED)()(CAR OR CARS OR TRUCK? ?)
S7       10321    S3()S5 OR S4(N)S5
S8          47    S1(S)S2
S9           0    S7(S)S8
S10         47    S1(S)S8
S11          0    S1(S)S7
S12         12    S2(S)S7
S13          1    S6(S)S7 [not relevant]
S14          0    S12 AND S13
S15         12    S12
S16          9    RD (unique items)
S17          1    S16/2001:2004
S18          8    S16 NOT S17
S19          8    Sort S18/ALL/PD,A [not relevant]
S20        310    S7/AB,TI
S21          8    (S1 OR S2 OR S6) AND S20
S22          4    S21 NOT S15
S23          3    RD (unique items)
S24    1763311    CASH
S25         18    S7(10N)S24
S26         17    S25 NOT (S15 OR S21)
S27          8    RD (unique items)
S28          3    S27/2001:2004
S29          5    S27 NOT S28 [not relevant]
```

23/8/1   (Item 1 from file: 275)
DIALOG(R)File 275:(c) 2004 The Gale Group. All rts. reserv.
02178736   SUPPLIER **NUMBER**: 20636249   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Avoid the DOS Prompt!(the MultiRen utility that adds Multiple Rename to
  Windows Explorer for renaming several files with a single command) (PC
  Tech Utilities) (Product Information)**
June 9, 1998
WORD COUNT: 3780   LINE COUNT: 00290
 SPECIAL FEATURES: other; illustration
 DESCRIPTORS: File Maintenance Utility; Product Application
 PRODUCT/INDUSTRY NAMES: 7372530 (Disk/File Management Software)
 SIC CODES: 7372 Prepackaged software
 TRADE NAMES: MultiRen (File maintenance utility)--Usage; Microsoft
  Windows 95 (Operating system)--Computer programs; Microsoft Windows NT
  4.0 (Operating system)--Computer programs

23/3,AB,K/3   (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

11146754   SUPPLIER **NUMBER**: 54994162   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Tightening security.(electronic commerce)
Young, Kung
Banker, 149, 880, 67(1)
June, 1999
ISSN: 0005-5395   LANGUAGE: English   RECORD TYPE: Fulltext; Abstract
WORD COUNT: 873   LINE COUNT: 00074

ABSTRACT: Four major security issues affect the conduct of electronic
commerce. These are the lack of security services in the TCP/IP Internet
protocol, the absence of authentication of parties, the predictability of
TCP **sequence numbers** and the dangers of misconfigured systems, shoddy
software and mismanagement. Security measures that are often used include
firewalls, asymmetric systems and cryptography. However, each of these
measures have their own weaknesses which make it harder to secure
electronic commerce.
...   of technologies: a screening router that screens different IP
packets, judging whether the packets are **safe** enough to pass through the
"walls" and a proxy server which performs a specific TCP...

```
     (FILE 'HOME' ENTERED AT 16:29:01 ON 29 JAN 2004)
     FILE 'CONFSCI' ENTERED AT 16:29:09 ON 29 JAN 2004
L1       10353 S NUMBER? OR NUMERAL? OR NUMERIC?
L2       15333 S SEQUENC? OR SEQUENT? OR SERIAL? OR CONSECUTIV? OR SUCCESSION?
L3       21707 S DOUBLE OR PAIR OR PAIRS OR SET OR SETS OR ALTERNATE OR DIFFER
L4       66441 S TWO OR 2
L5       59008 S UPDAT? OR CHANG? OR ADVANC? OR FORWARD? OR FOLLOW?
L6       10843 S SECUR? OR SURETY OR SAFEGUARD? OR PROTECT?
L7          27 S L1(2N)L2
L8           0 S L7(3N)(L3 OR L4)
L9           2 S L5 AND L7 not relevant
```

Quicken Q

harvey harvey@greenwood.net
Thu, 11 Nov 1999 13:19:38 -0500

- Previous message: Tuning Pins
- Next message: Harpsichord info appreciated
- **Messages sorted by:** [date] [thread] [subject] [author]

This brings up a good question. I've used both Quicken and QB, but it's been a while. So excuse me if I'm unclear on the details.

First, I agree that QB is more powerful than Quicken for business purposes. I'm also aware that the cash versus invoicing areas share the same customer database(?) However, when it comes to billing, a decision should be made between invoicing (billing) and cash sales, lest the process become overly complicated and really confusing. IIRC, there are two sets of sequential numbers assigned (defaulted) by the program... one for invoices and one for cash sales. This is where it gets tough.

If others are like me, invoice details are handwritten at the time of service on a separate billing form, and payment is received. Later, the details, as applicable, are recorded in QB -- in one place or another. I understand there are some who pre-print the invoice from QB, then write in additional details on-site. However, what if that call is cancelled for whatever reason? You end up with an assigned invoice or cash sale number, and no payment to coincide with it.

Eg, say there are four calls that day. Three are "cash" sales, and one is to be billed. Someone take it from there in terms of data entry into QB, and keeping the consecutive numbering sequence.

At 09:19 PM 11/10/99 -0700, you wrote:
>>*Many technicians use Quicken, I think, and I'm trying it. I'm confused*
>>*about entering income, however. The program presents an invoice form*
>>*into which all sorts of things must be entered along with due date, etc.*
>>*I'm mostly paid right after the job, so I'd just like to enter the*
>>*amounts received each day and get it over with. Can anyone offer me some*
>>*tips?*
>>
>>*Philip Jamison Pianos*
>>*West Chester, PA*
>
>*I record all my income as cash sale, then you can make a deposit into*
>*whatever account you have. I have quickbooks pro. I think it is the same.*
>
>*I don't bother with invoices, haven't bothered to learn the program well,*
>*my wife could do it, she is an accountant, but all she looks at is my*
>*profit and loss statement : (.*
>
>*"You are never alone or helpless, the force that guides the stars guides*
>*you too." -P.R. Sarkar*
>

>

```
Jim Harvey, RPT
Greenwood, SC
harvey@greenwood.net
```
Yes, I'm familiar with Brambach... why do you ask?
        -Jim Harvey, 1974

- Previous message: <u>Tuning Pins</u>
- Next message: <u>Harpsichord info appreciated</u>
- **Messages sorted by:** [date] [thread] [subject] [author]

```
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200407
File 347:JAPIO Oct 1976-2003/Sep(Updated 040105)
Set     Items    Description
S1     1510469   NUMBER??? OR NUMERAL? ? OR NUMERIC?
S2     1006961   SEQUENC??? OR SEQUENT? OR SERIAL? OR CONSECUTIV? OR SUCCES-
                 SION? ? OR SUCCESSIVE? OR SUBSEQUENT OR SUCCEED??? OR SUCCEDE-
                 NT
S3     3787108   DOUBLE OR PAIR? ? OR SET OR SETS OR SERIES OR GROUP? ?
S4      969213   ALTERNATE OR DIFFERENT
S5     2540545   TWO
S6     9530277   2
S7     2538031   UPDAT??? OR CHANG??? OR ADVANC??? OR FORWARD??? OR FOLLOW?-
                 ??
S8     1329894   SECUR??? OR SURETY OR SAFEGUARD??? OR PROTECT???
S9       20744   S1(2N)S2
S10      46483   S1(2N)S3
S11      18180   S1(2N)S4
S12       6817   S1(2N)S5
S13      26278   S1(2N)S6
S14       1302   S9(3N)S10:S13
S15         30   S14(5N)S7
S16          4   S14(5N)S8
S17         34   S15:S16
S18     259652   IC=G06F-017
S19          2   S17 AND S18
S20      18276   IC=G07G-001
S21          1   S17 AND S20
S22          3   S19 OR S21
S23         31   S17 NOT S22
S24          8   S23/2001:2004
S25         23   S23 NOT S24
S26         54   S14 AND S18
S27          5   S14 AND S20
S28          4   S27 NOT S22:S23
S29         52   S26 NOT (S22 OR S23 OR S27)
S30         23   S29 AND S7:S8
```

 22/34/1   (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
013632322   **Image available**
WPI Acc No: 2001-116530/200113
   **Management procedure for number information system has updating unit
   which updates numerical information by reading following numerical
   information that shows section information**
Patent Assignee: NTT DATA TSUSHIN KK (NITE)
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
JP 2000339343 A   20001208 JP 99152691   A   19990531   200113 B
Priority Applications (No Type Date): JP 99152691 A 19990531
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
JP 2000339343 A   8 G06F-017/30
Abstract (Basic): JP 2000339343 A
         NOVELTY - A searching unit searches **consecutive   number**

information, a **group** corresponding to the **consecutive   number**
information, and a group designated **following** the issue demand of a
number information. An updating unit updates numerical information by
reading following numerical information which shows section information
included in the number information.

DETAILED DESCRIPTION - The number information is immediately
delivered from a first storing unit to a second storing unit. The first
storing unit matches the numerical information that shows each section
information and numerical information that shows following section
information, and stores the numerical information to each section
information arranged in predetermined order. The second storing unit
stores numerical information that shows section information for
possible updating included in the delivered number information. The
consecutive number information are stored in group formed by the
meeting of predetermined section information.

USE - For number information system used in processing registration
information of motor vehicle.

ADVANTAGE - Improves efficiency of information processing required
for generation of number information. Reduces load of information
processing Database of large capacity becomes unnecessary. Improves
search velocity of number information.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of
an information procedure included in a number information management
system.

pp; 8 DwgNo 1/6
Derwent Class: T01   .
International Patent Class (Main): **G06F-017/30**
International Patent Class (Additional): **G06F-017/60**

22/7,K/2   (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
07747970   **Image available**
RULED LINE DISPLAY DEVICE
PUB. NO.:   2003-241875 [JP 2003241875 A]
PUBLISHED: August 29, 2003 (20030829)
INVENTOR(s): OKAJIMA YOSHIO
APPLICANT(s): SHARP CORP
APPL. NO.:   2002-362770 [JP 2002362770]
              Division of 06-309239 [JP 94309239]
FILED: December 13, 1994 (19941213)

ABSTRACT
PROBLEM TO BE SOLVED: To provide a ruled line display device which can
determine ruled line graphic data to be a change object or ruled line
graphic data belonging to a group, and change a line style.
SOLUTION: The ruled line display device is constituted to have a ruled line
storage means 108 which assigns group numbers to each of a plurality of
ruled line graphic data and stores them by group, a number determination
means 109 which determines by referring the ruled line storage means 108
whether the ruled line graphic data specified by pointing input belongs to
a group number or not, and a ruled line reading means 110 which reads the
ruled line graphic data **following** the determined **group   number**
 sequentially   from the ruled line storage means 108 and automatically
changes them. Consequently, the ruled line graphic data to be changed or
the ruled line graphic data belonging to a group number can be determined
and the line style can be changed.

INTL CLASS: G06F-003/00; **G06F-017/21**

 22/7,K/3   (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
04772640   **Image available**
ARTICLE SALE REGISTRATION DATA PROCESSOR
PUB. NO.:   07-065240 [JP 7065240 A]
PUBLISHED: March 10, 1995 (19950310)
INVENTOR(s):   YAMAGUCHI TAKEO
APPLICANT(s): TEC CORP [000356] (A Japanese Company or Corporation), JP
               (Japan)
APPL. NO.:   05-214421 [JP 93214421]
FILED: August 30, 1993 (19930830)
                                    ABSTRACT

PURPOSE: To determine and register data in various setting data tables more
speedily and accurately.
CONSTITUTION: This processor is provided with address specification input
means   (20AR,   20AI,   and 20AS), a specific address storage means 13RB, and
step input control means (11 and 12),   and each time data (link data)
corresponding to a last determined and registered address ('1') are
determined and registered, a next specific address ('3') among previously
stored specific addresses ('1', '2', '3', '4', '5'...) is automatically
inputted to an address buffer 13AB by skipping. Further, update input skip
control means (11 and 12), etc., are provided to automatically **update** and
input **serial** – **number** addresses ('1', ' 2 ', '3', '4',...) basically, and
exclude the specific skip address ('2') and automatically update and input
the next address ('3').
INTL CLASS: **G07G-001/12**

 25/26,TI/4   (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
009667770
WPI Acc No: 1993-361321/199346
  **Security system controlling locking and unlocking of vehicle door or boot
  – uses transmitter with selectively actuated switches each representing
  function which emits output with unique identifying code**

 25/26,TI/5   (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
009452465
WPI Acc No: 1993-145990/199318
  **Identification marking system e.g. for office equipment – includes ink
  layers burned by laser beam to produce indelible marking on surface of
  equipment**

 25/26,TI/7   (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
007261170
WPI Acc No: 1987-258177/198737
  **Decoding circuit for encoded TV signal transmission – includes analysis
  of shift between successive image lines in order to identify code used to**

control pattern of encoding sequence

25/26,TI/8   (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
003621822
WPI Acc No: 1983-H0024K/198321
  Pseudo-random numbers generator - has outputs from first two M-sequence
  generators fed, via largest number selector, to next selector

25/7,K/1   (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
012482838   **Image available**
WPI Acc No: 1999-288946/199925
  Numerically controlled machine tool
Patent Assignee: INDEX WERKE GMBH & CO HAHN & TESSKY KG (HAHN)
Inventor: SCHISCHMANJAN S
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
DE 19746130   A1   19990422 DE 1046130   A   19971018 199925 B
Priority Applications (No Type Date): DE 1046130 A 19971018
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
DE 19746130   A1   11 G05B-019/18
Abstract (Basic): DE 19746130 A1
        NOVELTY - The machine tool has a number of relatively movable
    machining tools and a workpiece holder which are controlled via a
    numerical machine control (22), for sequential execution of numerical
    control sets, with measurement of the time span (SL) of each numerical
    control set, the **changing** time (SW) between **two successive**
    numerical control **sets** and the overall running time of the numerical
    control sets.
        DETAILED DESCRIPTION - A control method for a numerically
    controlled machine tool is independently claimed.
        USE - For machine tool with several sequential machining steps.
        ADVANTAGE - Allows detection and elimination of delays in the
    machining program.
        DESCRIPTION OF DRAWING(S) - The figure shows a schematic diagram of
    a numerically controlled machine tool.
        Numerical machine control (22)
        pp; 11 DwgNo 1/7
Derwent Class: P56; T06; X25
International Patent Class (Main): G05B-019/18
International Patent Class (Additional): B23Q-015/007

25/7,K/2   (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
011905010   **Image available**
WPI Acc No: 1998-321920/199828
  Servo controller for magnetic or magneto-optical disk used in computer
  system - has detector which detects servo information in readback signal
  received from head assembly
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: HETZLER S R; SERRANO L J
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
US 5757567   A   19980526 US 96598486   A   19960208   199828 B
Priority Applications (No Type Date): US 96598486 A 19960208
Patent Details:
Patent No   Kind Lan Pg   Main IPC   Filing Notes
US 5757567   A   15 G11B-005/09
Abstract (Basic): US 5757567 A
        The controller includes a servo assembly that moves a head assembly
    relative to the tracks of a disk (12). A detector detects the servo
    information in the readback signal received from the head assembly. A
    servo decoder (20) decodes the servo information received from the head
    assembly.
        The servo information comprises a sequence of signal components
    that define a transition pattern corresponding to the track
    identification number, such that one magnetic flux transistor defines a
    bit of the track identifier number. **Only one bit of the track
    identification number changes from one track to the next and only one
    signal component transition of the servo information changes from one
    track to the next.**
        ADVANTAGE - Preserves gray code property of only one single bit
    changing state between any **two** **numbers** in code **sequence** .
    Preserves necessary state transition polarity between code numbers,
    while requiring single transition for encoding each core bit. Improves
    code efficiency. Obtains track identification decoding with reduced
    error limits.
        Dwg.1/9
Derwent Class: T03
International Patent Class (Main): G11B-005/09

 25/7,K/3   (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
010625458   **Image available**
WPI Acc No: 1996-122411/199613
 **Loop type network of split type - provides right to frame transmission
   using token which is passed between terminals, with token** group   number
   being changed   sequentially   **NoAbstract**
Patent Assignee: HITACHI CABLE LTD (HITD)
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
JP 8018585   A   19960119 JP 94144566   A   19940627   199613 B
Priority Applications (No Type Date): JP 94144566 A 19940627
Patent Details:
Patent No   Kind Lan Pg   Main IPC   Filing Notes
JP 8018585   A   5 H04L-012/42
Derwent Class: W01
International Patent Class (Main): H04L-012/42

 25/7,K/9   (Item 9 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
003015581

WPI Acc No: 1981-B5592D/198108
   **Polyphase frequency converter control - has amplitude of inverters input
   set during each interval with phase mismatch**
Patent Assignee: KALASHNIKOV B E (KALA-I)
Inventor: EPSHTEIN I I; KALASHNIKO B E
Number of Countries: 001   Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
SU 731549	B	19800430				198108	B

Priority Applications (No Type Date): SU 2442475 A 19770117
Abstract (Basic): SU 731549 B
      Improved voltage output waveshape of the polyphase thyristor
   frequency converter is due to the suppression of harmonics and ensuring
   a simultaneous decrease of intake power. Each of the n intervals of
   noncoincidence of output signals phase in the three-phase bridge
   inverters involves input amplitude change according to a law given by a
   formula. The latter relates the relative **change** of amplitude to the
   serial   number p=1, 2 ...n of the interval.
      The power section of the converter includes controlled rectifier
   (1) fed by the mains and self-commutated inverters (2) connected to
   three-phase load (3). The control is provided by master oscillator (4)
   and phase shifter (5) linked to pulse distributors (6). Switch (9)
   ensures stepwise setting of converter output amplitude as a function of
   signal from phase shifter (5). Bul.16/30.4.80
Derwent Class: X13
International Patent Class (Additional): H02P-013/16

   25/7,K/11   (Item 11 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
001522944
WPI Acc No: 1976-J5880X/197639
   **Binary arithmetical logic unit - having new circuit design has fewer
   outlets and performs more operations**
Patent Assignee: AS UKR CYBERNETICS (AUCY-R)
Number of Countries: 001   Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
SU 476578	A	19760326				197639	B

Priority Applications (No Type Date): SU 1896550 A 19730319
Abstract (Basic): SU 476578 A
      The unit is designed for use as an element of specialised
   homogenous computing devices. It consists of a logic multiplication
   circuit, two half-adders, a result and a carry trigger, a separation
   circuit and a zero check circuit; its new circuit design has made it
   possible to reduce the number of outlet taps, and to perform all of the
    following operations: logic multiplication of **two** binary **numbers** ,
   presented in **serial** code with the low digits **for**ward , addition of
   the result of logic multiplication to the carries, obtained during the
   preceding time step, and to the serial code of a third number, storing
   the carries and the result for the duration of one time step in the
   presence of synchronising pulses at the appropriate input, as well as
   zero and sign check of the result.
Derwent Class: T01
International Patent Class (Additional): G06F-007/00

25/7,K/12   (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
06396696   **Image available**
CIPHER KEY FORMATION AND ENCRYPTION METHOD
PUB. NO.:   11-338347 [JP 11338347 A]
PUBLISHED: December 10, 1999 (19991210)
INVENTOR(s):   TSUKAMOTO KEIICHI
APPLICANT(s): HITACHI SOFTWARE ENG CO LTD
APPL. NO.:   10-149024 [JP 98149024]
FILED: May 29, 1998 (19980529)

ABSTRACT
PROBLEM TO BE SOLVED: To make illicit decipherment difficult and to make
the high-speed processing with an electronic computer possible by forming
 two pseudo-random **number**   **sequences** , **changing** the sequence of the
one pseudo-random number sequence in accordance with the value of another
pseudo-random number sequence and outputting the pseudo- random number
sequence after a sequence change as a cipher key.
SOLUTION: The pseudo-random number RF is set at RX=RX0 for the purpose of
initialization. The pseudo-random number RX is stored in an array element
V[0] and a subscript I for storing the pseudo-random number RX formed in
the subsequent processing into the array V is initialized to I=1 (S402,
S403). The next pseudo-random number RX is calculated and is stored in the
array element V[I] of the subscript I and further the subscript I of the
array V for assigning the array element for storing the pseudo-random
number RX to be calculated next is added (S404 to S406). A pointer P is
positioned at the word at the top of plaintext/ciphertext data and the
first/second pseudo-random number are calculated (S409). Next, the
processing to obtain the agitation random numbers agitating the first
pseudo-random number sequence is executed and Bellman processing is
executed with the fetched pseudo-random number Rn as a key.
COPYRIGHT: (C)1999,JPO

25/7,K/14   (Item 3 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
04459891   **Image available**
TWO-WAY SHIFT REGISTER
PUB. NO.:   06-103791 [JP 6103791 A]
PUBLISHED: April 15, 1994 (19940415)
INVENTOR(s):   YOSHIDA KATSUMASA
APPLICANT(s): YASKAWA ELECTRIC CORP [000662] (A Japanese Company or
               Corporation), JP (Japan)
APPL. NO.:   04-249985 [JP 92249985]
FILED: September 18, 1992 (19920918)

ABSTRACT
PURPOSE: To obtain a two-way shift register which generates a random
number sequence of **two**-way and can **secure** a random state of 2(supn).
CONSTITUTION: When a control signal SL is at a high level, an output K1 of
a combination logic circuit 3(sub 1) and output R0, R1 and R2 of D flip
flop(F/F) 1(sub 0), 1(sub 1) and 1(sub 2) are respectively selected by
selectors 2(sub 0), 2(sub 1), 2(sub 2) and 2(sub 3), and respectively
inputted to F/F 1(sub 0), 1(sub 1), 1(sub 2) and 1(sub 3). And, when the
control signal SL is at a low level, outputs R1, R2, and R3 of F/F 1(sub
1), 1(sub 2), and 1(sub 3), and outputs of a combination logic circuit
3(sub 2), are respectively selected by selectors 2(sub 0), 2(sub 1), and

2(sub 2), and respectively inputted to F/F 1(sub 0), 1(sub 1), and 1(sub 3). When the output R0-R3 are made a state of one before a stack state, output of exclusion OR circuits 4 and 7 are respectively inverted by exclusive OR circuit 6 and 9 .

25/7,K/15   (Item 4 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
04342634   **Image available**
PASSWORD NUMBER INPUT DEVICE
PUB. NO.:   05-334334 [JP 5334334 A]
PUBLISHED: December 17, 1993 (19931217)
INVENTOR(s):   KIJIMA KATSUHIRO
                OKAMOTO TAKASHI
APPLICANT(s): MITSUBISHI ELECTRIC CORP [000601] (A Japanese Company or
                Corporation), JP (Japan)
APPL. NO.:   04-141743 [JP 92141743]
FILED: June 02, 1992 (19920602)
                             ABSTRACT
PURPOSE: To obtain the password number input device which eliminates the
danger that a password number is known to others even if the motion of the
hand or arm of a user is viewed when the user inputs the password number
and also has an regularity in the array of numerals for easier use.
CONSTITUTION: This password number input device has a numeral input means 3
for inputting the password number by moving the position of a specific
numeral   sequence or using a **numeral** input part **2** which can **change**
the arrangement pattern of the numeral sequence, a **numeral sequence** display
means 1 which displays a **numeral sequence** corresponding to the position of
the numeral input part or the arrangement pattern, a determining means
which determines the position or arrangement pattern of the **numeral
sequence,** and a display control means which erases the displayed **numeral
sequence** after the user displays the **numeral sequence** right and inputs the
password number before use.

25/7,K/16   (Item 5 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
03993344   **Image available**
DATA TRANSFER SYSTEM
PUB. NO.:   04-358444 [JP 4358444 A]
PUBLISHED: December 11, 1992 (19921211)
INVENTOR(s):   KIMURA MEGUMI
                SAGAWA KAZUHIRO
APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP
                (Japan)
APPL. NO.:   03-133869 [JP 91133869]
FILED: June 05, 1991 (19910605)
                             ABSTRACT
PURPOSE: To obtain a transmission schedule with the small processing even
if the distant side of communication changes the window size by securing
the relationship between a window control area and a transmission data
control area in a prescribed procedure.
CONSTITUTION: A window control area 11 controls the address of a window
lower limit DT control area 12 where the correspondence is secured to the
transmission data DT 13, the address of a (window upper limit-1) DT control
area, the address of a final DT control area, the next draw-out sequence

number used for the window control, the modulo, the credit value, and the upper limit of transmission set for retransmission control respectively. In a data transfer system, the correspondence is secured between the window control and the transmission data based on the area 11, the correspondence procedure set between the transmission data and the window, the window size **changing** procedure, the **sequence number** adding procedure **set** to the transmission data, the window updating procedure set with reception of a confirm command given to the transmission data, and the retransmission procedure of the transmission data set when no confirm command is received within a fixed time.

25/7,K/17 (Item 6 from file: 347)

DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
03981069 **Image available**

DATA PROCESSOR

PUB. NO.:	04-346169 [JP 4346169 A]
PUBLISHED:	December 02, 1992 (19921202)
INVENTOR(s):	SATO HAI
APPLICANT(s):	DAIKIN IND LTD [000285] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.:	03-149812 [JP 91149812]
FILED:	May 23, 1991 (19910523)

ABSTRACT

PURPOSE: To obtain the data processor capable of maintaining the consistency of the outputted slips clearly at all times.
CONSTITUTION: Data of **serial consecutive numbers** to be **set** for each slip and **updated** for each output of the slip is recorded on a slip number gathering data recording part 31. An output control part 25 adds **consecutive numbers** on the slip based on the data recorded on the slip gathering number data recording part 31, and also adds the **consecutive number** of the slip on the data of the processing source to the slip when the slip is on the data after process. Thus, even when the slip is mixed after the slip output, the right time order of the slip and the order of data processing can be immediately confirmed on the slip.

25/7,K/19 (Item 8 from file: 347)

DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
03289096 **Image available**
DATA TRANSMISSION DEVICE FOR CENTRALIZED SUPERVISORY SYSTEM

PUB. NO.:	02-264596 [JP 2264596 A]
PUBLISHED:	October 29, 1990 (19901029)
INVENTOR(s):	ARAKI JUNICHI
APPLICANT(s):	NISSIN ELECTRIC CO LTD [000394] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.:	01-085083 [JP 8985083]
FILED:	April 03, 1989 (19890403)

ABSTRACT

PURPOSE: To completely grasp the generation of state changes by adding a means to a terminal controller to transmit the generating order data every time a state change occurs and at the same time a means to a central supervisory controller to perform the comparison of the generating order data.
CONSTITUTION: A terminal controller RC actuates a counter 12 every time the state changes of terminal equipments TM1-TM3 are detected and **sets** the

serial   numbers   of these state **changes** at an order storing part of
information fields to send them to a data way DW. A central supervisory
controller SCP receives the data from the controller RC and checks whether
the received serial numbers have some omission or not. Thus it is possible
to know that the state change data has no omission as long as the latest
state order .is set after preceding state change order and to detect the
omission of the state change data if the latest state change order is
skipped.

25/7,K/20   (Item 9 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
02125344   **Image available**
BIDIRECTIONAL BLOCK CHAIN CONTROL SYSTEM
PUB. NO.:   62-042244 [JP 62042244 A]
PUBLISHED: February 24, 1987 (19870224)
INVENTOR(s): TAKASHI HITOSHI
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP
              (Japan)
APPL. NO.:   60-180923 [JP 85180923]
FILED: August 20, 1985 (19850820)
                              ABSTRACT
PURPOSE: To recover quickly the system fault of a file by providing two
bidirectional block chains having a same structure and same contents in
terms of a block structure and giving a time error to a switching process
between both block chains.
CONSTITUTION: The mutual relation between both blocks serves as the data
part of an index-based compiling file and the data record I is added under
such conditions. Thus the 2nd block 2 unable to store the extra data any
more and therefore ha its division. Then a time error is given to the
switching process between the primary and secondary block chains. In other
words, both bidirectional block chains have different time points when the
block contents are reflected on a file. Thus the primary bidirectional
block chain is reflected when the 3rd block is secured. While the secondary
bidirectional block chain is reflected when the 3rd block is completed. In
such a way, the relative relation is **secured** among the blocks of **serial**
  numbers 1, 2 and 3 via said both bidirectional block chains.

25/7,K/21   (Item 10 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
02071482   **Image available**
PICTURE MEMORY CONTROL SYSTEM
PUB. NO.:   61-285582 [JP 61285582 A]
PUBLISHED: December 16, 1986 (19861216)
INVENTOR(s): FUKUDA KOJI
              HINO MASATOSHI
              TABATA KUNIAKI
APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP
              (Japan)
APPL. NO.:   60-126026 [JP 85126026]
FILED: June 12, 1985 (19850612)
                              ABSTRACT
PURPOSE: To eliminate the need to use plural picture files and input
devices and to attain a fade-in action by writing and displaying a memory
plane which fetches picture data in response to the resolution of the A/D

conversion of a video signal and with control of the write timing.
CONSTITUTION: A memory buffer (memory plane) 12 of a picture processor
which performs the fade-in/fade-out actions contains (n) pieces of areas
(X'XY') having capacity corresponding to the display screen (XXY) of a CRT
7. These areas (X'XY') gives the D/A conversion to the picture data stored
in the memory 12 and turns them into video signals for display. When the
picture data are stored in the plane 12 consisting of (n) areas, the video
signals of the picture read out of a picture file are turned into the
picture data through the A/D conversion performed with n-bit resolution.
This picture data is written to each area corresponding to the contents of
(n) bits. The luminance of each picture element is shown by each bit and
the depth direction of the luminance is defined as the plane numbers. The
fade-in/fade-out actions are carried out by fetching and displaying
successively plane **numbers** 1, **2**, 3- and **changing** the rate of luminance
between two screens.

25/7,K/23   (Item 12 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
01188539   **Image available**
CODE CONVERTER
PUB. NO.:   58-125939 [JP 58125939 A]
PUBLISHED: July 27, 1983 (19830727)
INVENTOR(s):   TAKESHITA KAZUYUKI
                HIRANO YASUHIRO
APPLICANT(s):   HITACHI DENSHI LTD [000542] (A Japanese Company or
                Corporation), JP (Japan)
APPL. NO.:   57-007561 [JP 827561]
FILED: January 22, 1982 (19820122)
                            ABSTRACT
PURPOSE: To keep a DC balance by means of the redundancy of ternary
recording and to lower the recording frequency to improve the S/N, by
having a special structure with the same number of digits secured between
+1 and -1 for a code consisting of (m) digits.
CONSTITUTION: The input binary signals (binary codes) al are transferred
successively by a clock C1 and a shift register 1, and a parallel data a2
of the prescribed bit is delivered and latched to a latch 3 with a clock C2
which is divided by a counter 2 that is reset with a synchronizing signal
s1. The output of the latch 3 is applied to upper and lower ROM4 and 5,
respectively, and the outputs of ROM4 and 5 are applied in parallel to
shift registers 6 and 7. The outputs of registers 6 and 7 are converted
into voltage waveforms by logic voltage converters 8 and 9 and then
converted into ternary codes by a subtractor (adder) circuit 10. The same
number of digits are **secured** between +1 and -1 with **2 consecutive
numbers** of +1 and -1 for the constitution of a code. At the same time,
the continuation of +1 or -1 is avoided at both sides of the code. In such
a way, the S/N is improved.

28/7,K/2   (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
04732049   **Image available**
METHOD FOR DETECTING OMISSION/OVERLAP OF CONSECUTIVE NUMBER DATA
PUB. NO.:   06-203049 [JP 6203049 A]
PUBLISHED: July 22, 1994 (19940722)
INVENTOR(s):   SATO MARI

APPLICANT(s): FUJITSU LTD [000522] (A Japanese Company or Corporation), JP
        (Japan)
APPL. NO.:   04-313879 [JP 92313879]
FILED: November 25, 1992 (19921125)

ABSTRACT

PURPOSE: To improve reliability for the detection of disarrangement by accomplishing a first record which detects the existence of the disarrangement in **consecutive number** data, generating a second record setting the consecutive data with disarrangement as an initial value, and continuing the update of the second record as far as no disarrangement occurs in the consecutive data.
CONSTITUTION: A **consecutive number** flag setting area 2 as an omission/overlap table and an overlap flag setting area 3 are generated, and the consecutive number flag setting area 2 and the overlap flag setting area 3 are initialized when the detection of the omission/overlap of the consecutive number data 1 is started, and each consecutive number flag and overlap flag are set at 0. Thence, a record 4a with young managing order is read out, and when the **consecutive number** data 1 exists, the **consecutive number** flag is **set** at 1 at every **consecutive number** 1 if the **consecutive number** flag setting area 2 shows 0. When the **consecutive number** flag setting area 2 shows 0, the **consecutive number** flag is **set** at 1. When the **consecutive number** flag setting area shows 1, the overlap flag setting area 3 is set at 1. When processing is performed by reading out the record 4a, 1 is set on the **consecutive number** flag setting area 2 and the **consecutive number** flag setting areas with **consecutive numbers** 0-16. Also, the next records 4b, 4c are processed.
INTL CLASS: G06F-015/21; G06F-011/00; G06F-013/00; **G07G-001/14**

28/7,K/3   (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
03825396   **Image available**
ARTICLE SALES DATA PROCESSOR
PUB. NO.:   04-190496 [JP 4190496 A]
PUBLISHED: July 08, 1992 (19920708)
INVENTOR(s): OSAWA HIDEAKI
APPLICANT(s): TOKYO ELECTRIC CO LTD [000356] (A Japanese Company or
        Corporation), JP (Japan)
APPL. NO.:   02-322034 [JP 90322034]
FILED: November 26, 1990 (19901126)

ABSTRACT

PURPOSE: To promote sale by detecting the **serial** transaction **number** of one transaction in a adjustment process after sold articles are registered, automatically judging whether or not there is a privilege in the transaction, and eliminating a trouble time and improving the certainty.
CONSTITUTION: Transaction serial numbers and corresponding discount rates are set previously in a special reduction table 27 before a stored is opened. After the store is opened, sale registration is performed by exactly the same key operation as before and each customer is given a **serial** transaction **number** . When this **serial number** matches with a **number set** in the table 27, the total amount of money of the customer is automatically discounted. Thus, the privilege like lottery is given by using the serial transaction numbers, and the sale is promoted consequently. Further, neither clerks nor customers need not confirm the transaction numbers on issued receipts, so the trouble is eliminated and the privilege can securely be given.

INTL CLASS: G07G-001/12

 28/7,K/4   (Item 3 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
03524096   **Image available**
POINT-OF-SALE INFORMATION CONTROL SYSTEM
PUB. NO.:   03-186996 [JP 3186996 A]
PUBLISHED: August 14, 1991 (19910814)
INVENTOR(s):   SUGIMOTO MASAHIKO
APPLICANT(s): TOKYO ELECTRIC CO LTD [000356] (A Japanese Company or
               Corporation), JP (Japan)
APPL. NO.:   01-325887 [JP 89325887]
FILED: December 18, 1989 (19891218)
                          ABSTRACT
PURPOSE: To lighten alteration work by clearing and resetting automatically
the other set contents of a set memory by a setting replacement command and
reset data from a terminal controller while a part of the set memory such
as a   **serial   number** counter, a terminal **number   set** memory, and an
accounts settling counter, etc., is left as it is.
CONSTITUTION: When the setting replacement command and the reset data are
sent from the terminal controller to terminals 4(sub 1) to 4(sub n), the
terminals 4(sub 1) to 4(sub n) clear all the set contents of the other
memory parts while leaving the serial number counter 432, the terminal
number set memory 433, and the accounts settling counter 434 in the set
memory 43A as they are. Then, they reset cleared memory areas based on the
set data. Thus, the resetting of the set memory 43A can be executed
automatically without being accompanied with manual operation
INTL CLASS: G07G-001/14

 30/26,TI/1   (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
015765884
WPI Acc No: 2003-828086/200377
  **Control method enabling IC operation mode with uncertainty - generate
  one-time Generic Random Number in IC's Random Number pool during first IC
  operation and Run-Time Random Number for each IC operation**

 30/26,TI/4   (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
015649622
WPI Acc No: 2003-711805/200367
  **Electronic interactive entertainment system, has processor for selecting
  sequentially numbered subsets according to number produced by random
  generator and showing numbered video sequences of selected subset on
  display**

 30/26,TI/5   (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
015553008
WPI Acc No: 2003-615163/200358
  **Method for dynamically establishing fast index - realizes a function of
  selecting arbitrary subsets of a database**

30/26,TI/6   **(Item 6 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
015494778
WPI Acc No: 2003-556925/200352
  Query message processing method using Internet, involves extracting
  queries from query messages received from users, and sending extracted
  queries, count value of queries and assigned sequence number, to search
  engine

30/26,TI/7   **(Item 7 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
015491652
WPI Acc No: 2003-553799/200352
  Cross-referencing method of reference manuals, involves placing
  sequential numbers and letters referring various portions of particular
  area of reference work in other area for forward and backward cross
  referencing

30/26,TI/9   **(Item 9 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
015139347
WPI Acc No: 2003-199874/200319
  Pointerless binary decision diagram package for electronic design
  automation tools, includes graph nodes identification arrangement which
  assigns consecutive integer numbers to different nodes

30/26,TI/12   **(Item 12 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
014580391
WPI Acc No: 2002-401095/200243
  Apparatus and method for system security using refractive index of
  light

30/26,TI/13   **(Item 13 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
014482349
WPI Acc No: 2002-303052/200234
  Assembled products management method involves assigning different
  serial numbers to separate products and parts even if they have
  similar structure

30/26,TI/14   **(Item 14 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
014269399
WPI Acc No: 2002-090097/200212
  Segmenting text element stream into clauses by use of token or text
  structure marker

30/26,TI/15   **(Item 15 from file: 350)**

DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
014038395
WPI Acc No: 2001-522608/200157
  **Determining nucleotide sequence signature, by obtaining optical values
  for each nucleotide position in a group, adjusting them to get ratio of
  final highest values near predetermined factor, generating base call**

 30/26,TI/16   (Item 16 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
013319263
WPI Acc No: 2000-491202/200043
  **Method for describing, storing and transferring alignment information,
  particularly for proteins and nucleic acids, by separation into gap and
  sequence information**

 30/26,TI/21   (Item 21 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
010403671
WPI Acc No: 1995-304985/199540
  **Design information management method for designing of electronic
  components - involves searching component list corresponding to serial
  number from product type specified and information about components from
  material information database**

 30/7,K/2   (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
015724451   **Image available**
WPI Acc No: 2003-786651/200374
  **Video game program for role playing game, sets numerical value displayed
  at display timing that coincides with operating input timing of player as
  control value**
Patent Assignee: SQUARE KK (SQUA-N); SQUARE CO LTD (SQUA-N)
Inventor: KAWAZU A
Number of Countries: 002 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20020137564	A1	20020926	US 2001977460	A	20011016	200374	B
JP 2002282540	A	20021002	JP 200187449	A	20010326	200374	

Priority Applications (No Type Date): JP 200187449 A 20010326
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020137564	A1		21	G06F-017/00	
JP 2002282540	A		13	A63F-013/00	

Abstract (Basic): US 20020137564 A1
     NOVELTY - The video game program has instructions for **sequentially**
  displaying **different numerical** values repeatedly on the screen.
  The display timing of each numerical value to be displayed is compared
  with operation input timing of player. The numerical value displayed at
  displaying timing that coincided with operating input timing is set as
  control value based on comparison result.
     DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
  following :

      (1) recorded medium storing video game program;
      (2) control value setting method; and
      (3) game machine.
      USE - For role playing games (RPG).
      ADVANTAGE - Enables a player to be involved in numerical setting of
a control value for controlling developments of RPG.
      DESCRIPTION OF DRAWING(S) - The figure shows the flowchart
explaining video game program.
      pp; 21 DwgNo 2/12
Derwent Class: P36; T01; W04
International Patent Class (Main): A63F-013/00; **G06F-017/00**
International Patent Class (Additional): A63F-013/10

30/7,K/3   **(Item 3 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
015685585   **Image available**
WPI Acc No: 2003-747774/200370
  **Input/output information writing method in storage area network, involves
writing entries from data log, starting from merge fence set to lowest** group
sequence number, **and incrementing merge fence after each write operation**
Patent Assignee: ELKINGTON S (ELKI-I); HESS R (HESS-I); KORGAONKAR A
  (KORG-I); LEVEILLE J (LEVE-I); LUBBERS C (LUBB-I); MCCARTY J (MCCA-I);
  SICOLA S J (SICO-I)
Inventor: ELKINGTON S; HESS R; KORGAONKAR A; LEVEILLE J; LUBBERS C; MCCARTY
 J; SICOLA S J
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20030187947	A1	20031002	US 2002106907	A	20020326	200370	B

Priority Applications (No Type Date): US 2002106907 A 20020326
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030187947	A1		19	G06F-015/16	

Abstract (Basic): US 20030187947 A1
      NOVELTY - A data log is generated in response to failure of
destinations in a storage network, Each input/output (I/O) information
received from a host computer, is assigned a **group sequence number**
 (GSN) that is stored. A merge fence is set to the lowest GSN of the
destination databases. The entries are written from the data log,
starting from the merge fence. The merge fence is incremented after
each write operation is completed.
      DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for
computer program product comprising machine readable medium storing
input/output information writing program.
      USE - For managing writing of input/output information during data
merging in storage area network.
      ADVANTAGE - Maintains redundant data storage sets in the storage
area network at remote locations and utilizes the storage area network
for writing information. Provides **security** to the written information
with higher reliability.
      DESCRIPTION OF DRAWING(S) - The figure shows a flowchart
illustrating the input/output information writing method.
      pp; 19 DwgNo 9/10
Derwent Class: T01; U13
International Patent Class (Main): G06F-015/16

International Patent Class (Additional): G06F-007/00; G06F-012/00;
  G06F-017/30

 30/7,K/8   **(Item 8 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
015264100   **Image available**
WPI Acc No: 2003-325029/200331
  **Surface attachment processing method for digital plate making, involves
  obtaining page set data for generating record consecutive number value
  added to each record**
Patent Assignee: DAINIPPON PRINTING CO LTD (NIPQ)
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
JP 2003099423 A   20030404 JP 2001291226   A   20010925 200331 B
Priority Applications (No Type Date): JP 2001291226 A 20010925
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
JP 2003099423 A   5 G06F-017/21
Abstract (Basic): JP 2003099423 A
        NOVELTY - Parameters e.g. surface attachment form, number of
    vertical and horizontal surface attachments, and the maximum thrust
    through **numbers** are **set** up. The **consecutive   number** value for
    surface attachment to the page set data is generated based on the
    set-up parameter. Page set data, used for generating record consecutive
    number value added to each record, is obtained.
        DETAILED DESCRIPTION - The consecutive number and total number of
    records are added to each record to acquire the page set data.
        USE - For digital plate making.
        ADVANTAGE - Reduces development cost since developing process is
    made unnecessary even if the items differ.
        DESCRIPTION OF DRAWING(S) - The figure shows the mode of **change**
    of a page set data based on the surface attachment processing method.
    (Drawing includes non-English language text).
        pp; 5 DwgNo 3/5
Derwent Class: P74; T01; W02
International Patent Class (Main): **G06F-017/21**
International Patent Class (Additional): B41C-001/00; H04N-001/387

 30/7,K/10   **(Item 10 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
014970385
WPI Acc No: 2003-030899/200303
  Object-unique identification method
Patent Assignee: DU L (DULL-I)
Inventor: DU L
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
CN 1366257   A   20020828 CN 2002101902   A   20020109 200303 B
Priority Applications (No Type Date): CN 2002101902 A 20020109
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
CN 1366257   A   G06F-017/22

Abstract (Basic): CN 1366257 A
    NOVELTY - The invention relates to a unique method for identifying
an object. The identifier is composed of 6 groups of letters and 1
group of Arabic numerals. Concept and object represented by these
identifiers constitutes labeled essential elements of unique identifier
of object. The invention makes natural person, family, juridical
person, merchandise, literature, patent etc. possess unique identifier,
providing a feasible method to discriminate whether the object is in
true or false status. The **following** is relation of permutation and
combination of label symbol L:Cc Kk Mm Pp Ss Uu Vv Ww Xx Yy, L1:C K M P
S U V W X Y; L2:c k m p s u v w x y; J:Qq Aa Bb Nn Dd Ee Ff Gg Hh Rr;
J1:Q A B N D E F G H R; J2: q a b n d e f g h r; I: 0 1 2 3 4 5 6 7 8
9. Tactic coincidence relation defined by algebra exists between each
letter in letter L and J . **groups** and Arabic **numerals** . Membership
sequence and handling relation sequence of these letters are
L-L1-L2-J-JI-J2-1. usage of letters conforms to rules ofdecimal system
L=-J=at I=hash . The concept of uniquely identifying an object is
represented by OLJI or O- at hash .
    DwgNo 0/0
Derwent Class: T01; U21
International Patent Class (Main): **G06F-017/22**
International Patent Class (Additional): **G06F-017/30**

   30/7,K/11   (Item 11 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
014968491   **Image available**
WPI Acc No: 2003-029005/200302
   **Multi-processor system for high performance data processing, retrieves
   sending sequence number, by consulting table storing** series **of**
   sequence   number **associated with prior message**
Patent Assignee: HEWLETT-PACKARD CO (HEWP); TSAO J S (TSAO-I); WARNER C W
   (WARN-I); HEWLETT-PACKARD DEV CO LP (HEWP)
Inventor: TSAO J S; WARNER C W
Number of Countries: 002 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20020129029	A1	20020912	US 2001803519	A	20010309	200302	B
JP 2002373158	A	20021226	JP 200258873	A	20020305	200314	
US 6615221	B2	20030902	US 2001803519	A	20010309	200359	

Priority Applications (No Type Date): US 2001803519 A 20010309
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020129029	A1		12	G06F-007/00	
JP 2002373158	A		11	G06F-015/177	
US 6615221	B2			G06F-017/30	

Abstract (Basic): US 20020129029 A1
    NOVELTY - A database unit creates a database entry corresponding to
a transaction request that is associated with a destination address. A
retrieving unit retrieves sending **sequence numbers** by consulting the
table storing **series** of **sequence   numbers** that is associated with
prior message to component. A transmitter transmits transaction message
comprising **sequence number** and destination address.
    DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the
following :
    (1) Data communication method; and

(2) Bridging unit.
USE - Multi-processor system for high performance data processing.
ADVANTAGE - Reduces latency caused in functionality of hardware and
provides superior data communication performance. Enables reliable
transport protocol for systems with improved efficiency.
DESCRIPTION OF DRAWING(S) - The figure illustrates an explanatory
topology of multicontroller system.
pp; 12 DwgNo 4/7
Derwent Class: T01; U13; U14; W01
International Patent Class (Main): G06F-007/00; G06F-015/177; **G06F-017/30**
International Patent Class (Additional): G06F-013/00; G06F-015/163;
  H02H-003/05; H04L-012/56

30/7,K/17   (Item 17 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
012578720   **Image available**
WPI Acc No: 1999-384827/199932
  **Electronic serial number assigning system for RF devices such as
  electronic price label**
Patent Assignee: NCR CORP (NATC)
Inventor: ADAMEC A J; GOODWIN J C
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
US 5917422   A   19990629 US 97882775   A   19970710 199932 B
Priority Applications (No Type Date): US 97882775 A 19970710
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
US 5917422   A   5 G06F-017/00
Abstract (Basic): US 5917422 A
        NOVELTY - A holding area (14) divides the RF devices group into two
    other groups. A transmitter (34) within an isolation chamber (20)
    programs an RF device within the latter group with an electronic
    serial   number which is **different** from the existing number and the
    number to **follow** within the same group.
        DETAILED DESCRIPTION - The holding area is external to an initial
    isolation chamber (12) having a transmitter (30) which programs the
    original group of RF devices including an RF device with the initial
    serial number. The RF device is an electronic price label. A controller
    (26) is coupled to the transmitters which transmit programming
    instructions to the RF devices within the respective group. An
    INDEPENDENT CLAIM is also included for the method of assigning
    electronic serial number to RF devices.
        USE - For assigning unique serial numbers to RF devices such as
    electronic price label (EPL).
        ADVANTAGE - The EPLs are assigned with unique serial numbers
    without having to isolate the EPLs from each other, thereby minimizing
    the cost and handling associated with the method.
        DESCRIPTION OF DRAWING(S) - The figure depicts the electronic
    serial number assigning system.
        Isolation chambers (12,20)
        Holding area (14)
        Controller (26)
        Transmitter (30,34)
        pp; 5 DwgNo 1/1

Derwent Class: T01
International Patent Class (Main): **G06F-017/00**

 30/7,K/18   (Item 18 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
012537087   **Image available**
WPI Acc No: 1999-343193/199929
 **Manufacture log management apparatus for collecting required data for a
 specific component or product based on a desired attribute - has log unit
 that takes log which matches combination of corresponding** set   serial
 number **of manufacturer and auto-process identifier**
Patent Assignee: FUJITSU LTD (FUIT)
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
JP 11126222   A   19990511 JP 97289747   A   19971022 199929 B
Priority Applications (No Type Date): JP 97289747 A 19971022
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
JP 11126222   A   17 G06F-017/60
Abstract (Basic): JP 11126222 A
        NOVELTY - A log unit (13) takes the log which matches the
combination of the corresponding set manufacturer's **serial number** and
an auto-process identifier. DETAILED DESCRIPTION - Process link memory
units (11) store the process link information which consists of a row
of identifiers for individual processes along the flow of a production
line. Setting units (12) provide the manufacturer's **serial number** for
each individually manufactured product. The set manufacturer's **serial
number** is combined with the supplied identifier about each process.
     USE - For collecting required data for a specific component or
product based on a desired attribute.
        ADVANTAGE - Improves reliability of quality data and enhances
manufacture efficiency. Manufactures product with high precision.
Secures high compatibility in a multi-variety job production due to
reliable collection of quality information. DESCRIPTION OF DRAWING(S) -
The figure shows the principle block diagram of the manufacture log
management apparatus. (11) Process link memory unit; (12) Setting unit;
(13) Log unit.
        Dwg.1/11
Derwent Class: P56; T01; T06
International Patent Class (Main): **G06F-017/60**
International Patent Class (Additional): B23Q-041/08; G05B-015/02

 30/7,K/19   (Item 19 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
011895816   **Image available**
WPI Acc No: 1998-312726/199827
 **Random number token sequence method for electronic payments - involves
 user purchasing** set **of** number sequences **derived from random number
 and using these via merchant for payments**
Patent Assignee: BRITISH TELECOM PLC (BRTE)
Inventor: HILL J
Number of Countries: 079 Number of Patents: 007
Patent Family:

```
Patent No     Kind   Date      Applicat No    Kind   Date      Week
WO 9822915    A1     19980528  WO 97GB3116    A      19971112  199827   B
AU 9749571    A      19980610  AU 9749571     A      19971112  199843
EP 941524     A1     19990915  EP 97912336    A      19971112  199942
                               WO 97GB3116    A      19971112
JP 2001504612 W      20010403  WO 97GB3116    A      19971112  200126
                               JP 98523322    A      19971112
US 6236981    B1     20010522  US 97972013    A      19971117  200130
EP 941524     B1     20030416  EP 97912336    A      19971112  200328
                               WO 97GB3116    A      19971112
DE 69721038   E      20030522  DE 621038      A      19971112  200341
                               EP 97912336    A      19971112
                               WO 97GB3116    A      19971112
```
Priority Applications (No Type Date): GB 9624127 A 19961120
Patent Details:
```
Patent No  Kind Lan Pg   Main IPC      Filing Notes
WO 9822915     A1 E  36  G07F-007/08
```
Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU
CZ DE DK EE ES FI GB GE GH HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT
LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT
UA UG US UZ VN YU ZW
Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GH GR IE IT
KE LS LU MC MW NL OA PT SD SE SZ UG ZW
```
AU 9749571     A       G07F-007/08   Based on patent WO 9822915
EP 941524      A1 E    G07F-007/08   Based on patent WO 9822915
```
Designated States (Regional): DE ES FR GB NL
```
JP 2001504612  W    40 G06F-019/00   Based on patent WO 9822915
US 6236981     B1      G06F-017/60
EP 941524      B1 E    G07F-007/08   Based on patent WO 9822915
```
Designated States (Regional): DE ES FR GB NL
```
DE 69721038    E       G07F-007/08   Based on patent EP 941524
                                     Based on patent WO 9822915
```
Abstract (Basic): WO 9822915 A

The network system, e.g. Internet, includes a method for a user to
pay for services from a merchant. The user pays the payment service
(600) for a set of digitally encoded random numbers. These are derived
from a **sequence of random number** held in the payment server. When the
user (100) wishes to pay a merchant (500) for a server, a suitable
payment token is transferred. The merchant **forwards** the token to the
payment server for verification and payment.

A user PIN may be used to further encode the **number sequences**. A
window may be used to allow payments to arrive out of sequence. If the
unused tokens are lost, they can be re-created.

ADVANTAGE - Provides a simple and robust method of paying for
Internet services.

Dwg.1/10

Derwent Class: T05; W01
International Patent Class (Main): **G06F-017/60** ; G06F-019/00; G07F-007/08
International Patent Class (Additional): G06F-007/10; G07F-007/10

30/7,K/20   (Item 20 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
010951878   **Image available**
WPI Acc No: 1996-448828/199645
  Mfd. prod. change **log management system - uses data processor to which**

memory that stores list describing substrate serial number **and** set
serial number **of mfd. prod., input, output and display units are connected**
Patent Assignee: SONY CORP (SONY)
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind Date   Applicat No   Kind Date   Week
JP 8222887   A   19960830 JP 9546254   A   19950211 199645 B
Priority Applications (No Type Date): JP 9546254 A 19950211
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
JP 8222887   A   15 H05K-013/00
Abstract (Basic): JP 8222887 A
        The system uses a memory (5) that stores the list describing the
    substrate serial number of a mount substrate and the **set   serial
    number** for every **set** of a predetermined model. A prodn. lot item
    file (6) describes the lot prodn. day of a predetermined mount
    substrate and the substrate serial number. A prodn. program **change**
    log file (7) describes the substrate prodn. program **change** day of the
    mfr. **change** connection document number of a predetermined mount
    substrate.
        A mount substrate mfr. **change** connection document file (15)
    describes the mfr. **change** connection document number of a
    predetermined mount substrate, the contents of the mfr. **change** and
    the mfr. **change** connection document generation date. The memory, an
    input unit (2), an output unit (4) and a display unit (3) are all
    connected to an on-line data processor (1).
        ADVANTAGE - Ensures speedy poor log countermeasure since poor log
    is easily searched by adding database of several files. Reduces
    modification work or precision improvement due to speedy poor log
    countermeasure. Ensures quick discovery of poor substrate generation in
    market and determines its exact countermeasure.
        Dwg.1/10
Derwent Class: P56; T01; V04
International Patent Class (Main): H05K-013/00
International Patent Class (Additional): B23P-021/00; B23Q-041/08;
  G06F-017/60

 30/7,K/22   (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
05772255   **Image available**
ROUTINE DOCUMENT PREPARING AND PRESERVING METHOD
PUB. NO.:   10-055355 [JP 10055355 A]
PUBLISHED: February 24, 1998 (19980224)
INVENTOR(s):   SHIMADA YURI
APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP
               (Japan)
APPL. NO.:   08-210130 [JP 96210130]
FILED: August 08, 1996 (19960808)
                             ABSTRACT
PROBLEM TO BE SOLVED: To provide the routine document preparing and
preserving method which can prevent a field format a routine document from
being destroyed when a routine document is newly prepared, automate part of
manual operation, and prevent a prepared routine document form being lost.
SOLUTION: A document file name specified at the time of registration and
preserving in routine document formats 20 and 21 is provided with a

document **serial-number** area by document classifications, and when the format 21 or routine document 23 is read to newly prepare a routine document 23, a document **serial number** corresponding to a document classification is automatically embedded in the document serial-number area. The document serial number embedded in the document **serial – number** area is **set** to the **number** (plus 1) right after the maximum document number read out of the routine document file storage area 24 where the routine document 23 is preserved. When the document serial number is automatically embedded in the document serial- number area, a zero-byte document is registered in the routine document file preserving area 24 and **updated** when a newly prepared routine document is registered.
INTL CLASS: **G06F-017/21**

30/7,K/23   **(Item 2 from file: 347)**
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
05267387   **Image available**
SYSTEM FOR MANAGING PRODUCT MANUFACTURING **CHANGE** HISTORY AND DEFECT HISTORY
PUB. NO.:   08-222887 [JP 8222887 A]
PUBLISHED: August 30, 1996 (19960830)
INVENTOR(s):   NOJI JUNKO
                MINATO HIROMI
APPLICANT(s): SONY CORP [000218] (A Japanese Company or Corporation), JP
                (Japan)
APPL. NO.:   07-046254 [JP 9546254]
FILED: February 11, 1995 (19950211)
                        ABSTRACT

PURPOSE: To provide a system for managing a product manufacturing **change** history and a defect history which can retrieve the product manufacturing **change** history and defect history for every set or mounted substrate.
CONSTITUTION: A system for managing a product manufacturing **change** history and a defect history is provided with a data processing means 1 and an input means 2, a displaying means 3, an output means 4, and a storing means which are connected to the means 1 in on-line states and the storing means stores a file 5 in which the **serial numbers** of **sets** and substrates are described, a production lot breakdown file 6 in which the manufacturing dates of substrates lots and serial numbers of substrates are described, a substrate production program **change** history file 7, a manufacturing substrate **change** memorandum file 15, and a defect history file 18 in which a defect history or a defective substrate history are described for every set. Since the file in which the **serial numbers** of **sets** are correlated with the serial numbers of substrates is provided, the product manufacturing **change** history and the defect history can be retrieved for every set of machines and every substrate.
INTL CLASS: H05K-013/00; B23P-021/00; B23Q-041/08; **G06F-017/60**

File 348:EUROPEAN PATENTS 1978-2004/Jan W04
File 349:PCT FULLTEXT 1979-2002/UB=20040122,UT=20040115

Set	Items	Description
S1	954351	NUMBER??? OR NUMERAL? ? OR NUMERIC?
S2	762217	SEQUENC??? OR SEQUENT? OR SERIAL? OR CONSECUTIV? OR SUCCES-SION? ? OR SUCCESSIVE? OR SUBSEQUENT OR SUCCEED??? OR SUCCEDE-NT
S3	1223179	DOUBLE OR PAIR? ? OR SET OR SETS OR SERIES OR GROUP? ?
S4	898286	ALTERNATE OR DIFFERENT
S5	1173825	TWO
S6	1718907	2
S7	1624656	UPDAT??? OR CHANG??? OR ADVANC??? OR FORWARD??? OR FOLLOW?-??
S8	651452	SECUR??? OR SURETY OR SAFEGUARD??? OR PROTECT???
S9	41685	IC=G06F-017
S10	769	IC=G07G-001
S11	79570	S1(2N)S2
S12	66097	S1(2N)S3
S13	90779	S1(2N)S4
S14	21752	S1(2N)S5
S15	85107	S1(2N)S6
S16	6442	S11(3N)S12:S15
S17	340	S16(5N)S7
S18	65	S16(5N)S8
S19	15	S17(S)S18
S20	**1**	**S19 AND S9:S10**
S21	**14**	**S19 NOT S20**
S22	28	S17:S18 AND S9:S10
S23	**27**	**S22 NOT S19**
S24	43	S17/AB,CM
S25	**39**	**S24 NOT (S19 OR S22)**

20/3/1   (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.
00806382
METHOD FOR AFFORDING A MARKET SPACE INTERFACE BETWEEN A PLURALITY OF MANUFACTURERS AND SERVICE PROVIDERS AND INSTALLATION MANAGEMENT VIA A MARKET SPACE INTERFACE
PROCEDE DE MISE A DISPOSITION D'UNE INTERFACE D'ESPACE DE MARCHE ENTRE UNE PLURALITE DE FABRICANTS ET DES FOURNISSEURS DE SERVICES ET GESTION D'UNE INSTALLATION VIA UNE INTERFACE D'ESPACE DE MARCHE
Patent Applicant/Assignee:
  ACCENTURE LLP, 1661 Page Mill Road, Palo Alto, CA 94304, US, US
    (Residence), US (Nationality)
Inventor(s):
  MIKURAK Michael G, 108 Englewood Blvd., Hamilton, NJ 08610, US,
Legal Representative:
  HICKMAN Paul L (et al) (agent), Oppenheimer Wolff & Donnelly LLP, 1400
    Page Mill Road, Palo Alto, CA 94304, US,
Patent and Priority Information (Country, Number, Date):
    Patent: WO 200139028 A2 20010531 (WO 0139028)
    Application: WO 2000US32308 20001122 (PCT/WO US0032308)
    Priority Application: US 99444773 19991122; US 99444798 19991122
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ
    DE DK DM DZ EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK

```
     LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK
     SL TJ TM TR TT TZ UA UG UZ VN YU ZW
     (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
     (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
     (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
     (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 170977
Main International Patent Class:  G06F-017/60
Fulltext Availability:  Detailed Description
```

21/3,AB,K/1   (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
00683557
Resource access control system.
Quellenzugriffskontrollsystem.
Systeme de commande d'acces aux ressources.
PATENT ASSIGNEE:
  AT&T Corp., (589370), 32 Avenue of the Americas, New York, NY 10013-2412,
    (US), (applicant designated states: DE;ES;FR;GB)
INVENTOR:
  Rangachar, Hemmige Venkata, 6 Somer Court, Millstone, N.J. 07726, (US)
LEGAL REPRESENTATIVE:
  Harding, Richard Patrick et al (41294), Marks & Clerk, Alpha Tower,
    Suffolk Street Queensway, Birmingham B1 1TT, (GB)
PATENT (CC, No, Kind, Date): EP 653868 A2 950517 (Basic)
                              EP 653868 A3 951102
APPLICATION (CC, No, Date):   EP 94308082 941102;
PRIORITY (CC, No, Date): US 152993 931112
DESIGNATED STATES: DE; ES; FR; GB
INTERNATIONAL PATENT CLASS: H04M-003/42; H04M-003/38; H04M-003/36;
  H04Q-003/00; H04M-003/22;
ABSTRACT EP 653868 A2
    Access of a user to a resource, such as a telecommunications network,
    includes storing, in a first call data base, a first set of attributes
    concerning an ongoing call from a caller. A second call data base stores
    a second set of attributes concerning the history of prior calls made by
    the caller. A rules data base stores rules concerning attributes for
    determining whether to disconnect the call, block future calls, or take
    other action. A determination is made whether data in at least one of the
    call data bases matches the rules in the rules data base. The call is
    then disconnected, the next call blocked, or other action is taken, in
    response to a match between data the call data bases and data in the
    rules data base. Preferably, the second call data base is updated in
    response to matches with the rules data base. (see image in original
    document)
ABSTRACT WORD COUNT: 154
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text   Language   Update   Word Count
      CLAIMS A (English)   EPAB95   1310
      SPEC A   (English)   EPAB95   6031
Total word count - document A   7341
Total word count - document B   0

Total word count - documents A + B   7341
...CLAIMS Using a bad ANI,
        - Of short duration,
        - Using repeated ANI,
        - From non-frequent accessor,
        - To **successive   different** dialed **numbers** , Using suspected
    patterned dialing,
        - With a connect time difference using a less than PDD (Post...
    events,
        - Authorization codes from detected fraud events,
        - Other files as required by CSAM (Telephone Corporation **Security**
    Administration Monitor).
    13. A system as in claim 11 or claim 12, wherein the control...

   21/3,AB/2   (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
00306062
Digital data processing system.
Digitales Datenverarbeitungssystem.
Systeme du traitement de donnees numeriques.
PATENT ASSIGNEE:
  DATA GENERAL CORPORATION, (410940), Route 9, Westboro Massachusetts 01581
    , (US), (applicant designated states: AT;BE;CH;DE;FR;GB;IT;LI;LU;NL;SE)
INVENTOR:
  Bratt, Richard Glenn, 9 Brook Trail Road, Wayland Massachusetts 01778, (US)
  Clancy, Gerald F., 13069 Jaccaranda Center, Saratoga California 95070, (US)
  Gavrin, Edward S., Beaver Pond Road RFD 4, Lincoln Massachusetts 01773,
    (US)
  Gruner, Ronald Hans, 112 Dublin Wood Drive, Cary North Carolina 27514, (US)
  Mundie, Craig James, 136 Castlewood Drive, Cary North Carolina, (US)
  Schleimer, Stephen I., 1208 Ellen Place, Chapel Hill North Carolina 27514
    , (US)
  Wallach, Steven J., 12436 Green Meadow Lane, Saratoga California 95070,
    (US)
LEGAL REPRESENTATIVE:
  Robson, Aidan John et al (69471), Reddie & Grose 16 Theobalds Road,
    London WC1X 8PL, (GB)
PATENT (CC, No, Kind, Date): EP 300516 A2 890125 (Basic)
                              EP 300516 A3 890426
                              EP 300516 B1 931124
APPLICATION (CC, No, Date):   EP 88200921 820521;
PRIORITY (CC, No, Date): US 266413 810522; US 266539 810522; US 266521
    810522; US 266415 810522; US 266409 810522; US 266424 810522; US 266421
    810522; US 266404 810522; US 266414 810522; US 266532 810522; US 266403
    810522; US 266408 810522; US 266401 810522; US 266524 810522
DESIGNATED STATES: AT; BE; CH; DE; FR; GB; IT; LI; LU; NL; SE
RELATED PARENT NUMBER(S) - PN (AN):
  EP 67556 (EP 823025960)
INTERNATIONAL PATENT CLASS: G06F-009/46; G06F-012/14;
ABSTRACT EP 300516 A2
    The system has memory storing data and instructions and processing
    means. Memory is organized into objects identified by unique identifiers
    (UIDs) comprising a logical allocation unit identifier (LAUID) and an
    object **serial number** (OSN) provided by an architectural clock, associated
    with an offset (O) and length (L) enabling logical addresses to be

derived. Instructions (SIN's) are in an intermediate level language –
(SOP's = S – language operations). Associated names (NAME A, NAME B)
point to name tables which identify subjects to which the processor may
respond in relation to the instruction in question. Protection is
afforded by restricting access to memory operations to a subject
pertaining to the set of subjects pertaining to the object in question.
ABSTRACT WORD COUNT: 122
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	1018
CLAIMS B	(German)	EPBBF1	868
CLAIMS B	(French)	EPBBF1	1115
SPEC B	(English)	EPBBF1	154256

Total word count – document A   0
Total word count – document B   157257
Total word count – documents A + B   157257

  21/3,AB,K/3   (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00221731
Credit transaction arrangements.
Anordnung mit Wertkarten.
Dispositif pour transaction a credit.
PATENT ASSIGNEE:
  GPT LIMITED, (986784), New Century Park P.O. Box 53, Coventry, CV3 1HJ,
    (GB), (applicant designated states: BE;DE;FR;IT;LU;NL;SE)
INVENTOR:
  Hodgson, Thomas Francis, 2 Alder Avenue, Billinge Near Wigan, (GB)
  Payne, Michael Wakefield, 201 Andover Road, Newbury Berkshire, (GB)
  Piegrome, Peter Charles, 11 Aran Close, Hale Liverpool L24 5GB, (GB)
LEGAL REPRESENTATIVE:
  Branfield, Henry Anthony et al (45871), The General Electric Company,
    p.l.c. GEC Patent Department Waterhouse Lane, Chelmsford, Essex CM1 2QX
    , (GB)
PATENT (CC, No, Kind, Date):   EP 216521 A2 870401 (Basic)
                               EP 216521 A3 881228
                               EP 216521 B1 931103
APPLICATION (CC, No, Date):   EP 86306548 860822;
PRIORITY (CC, No, Date): GB 8522427 850910
DESIGNATED STATES: BE; DE; FR; IT; LU; NL; SE
INTERNATIONAL PATENT CLASS: H04M-017/02;
ABSTRACT EP 216521 A2
    The invention concerns call-charge payment of telephone calls form
  payphone telephone instruments (PI) using a credit card, or the like. The
  invention provides credit transaction arrangements for automatic
  call-charge payment of calls established through a telecommunications
  network form payphone instruments (PI). The payphone (PI) is provided
  with a credit card reader (CRM) which when activated causes the payphone
  (PI) to automatically set-up a path (NAP) through the telecommunications
  network to credit transaction equipment (CCE) at a remote location (NP)
  within the network. Initially, a first record data (HEAD), being relevant
  to call-charge payment, is transmitted over the path (NAP), validated and
  stored (CDS) at the credit transaction equipment (CCE), and the path is
  promptly disconnected. The subscriber then sets-up a communication path

through the network to a desired called subscriber for communication
purposes. Following the release of the communication path, second record
data (TAIL), also being relevant to the call-charge payment, is compiled
in the payphone and subsequently transmitted to the credit transaction
equipment (CCE) and combined with the first record data (HEAD) for
call-charging payment purposes. A data base (DB) employed a computer is
concerned with the bill processing.
ABSTRACT WORD COUNT: 194
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text   Language   Update   Word Count
        CLAIMS B   (English)   EPBBF1   2272
        CLAIMS B   (German)   EPBBF1   2195
        CLAIMS B   (French)   EPBBF1   2870
        SPEC B   (English)   EPBBF1   3903
Total word count - document A   0
Total word count - document B   11240
Total word count - documents A + B   11240
...SPECIFICATION is identification), CALL COSTS (CC) and DIALLED DIGITS
   (DD). The HEAD DATA (HD) includes data **representing** the **SERIAL
   NUMBER** (SN) of the call from the payphone and the CREDIT CARD DATA
   (CCD), which is...
...CRM, and is then forwarded to card data checking means CCM which
   performs a local **security** check on the data. Upon the check being
   completed, and the CCM indicating a probable...
...send "Charging and Authorisation Data" (CAD) forward. The tone is
   present for up to 5 seconds . Failure to receive the in band tone within
   T1 seconds (see LIST 1 - various timeouts...minimum coin fee
        Dial tone returned from network
        2. CALLER SWIPES CARD
        Payphone performs local **security** check on credit card
        Payphone autodials credit card system - access code
        LCD changes to minimum...
...DATA 'CAD' TO CREDIT CARD SYSTEM
        Data transmitted in DTMF
        CAD comprises:
        Card No.
        Payphone **identity**
        Call **serial   number**
        Comfort tone returned to call
        5. CREDIT CARD SYSTEM VALIDATES CARD DETAILS
        Partial record created...

 21/3,AB,K/8   **(Item 5 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
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00861894
MESSAGE QUEUE SERVER SYSTEM
SYSTEME DE SERVEUR DE FILE D'ATTENTE DE MESSAGES
Patent Applicant/Assignee:
  INRANGE TECHNOLOGIES CORPORATION, 100 Mount Holly By-Pass, Lumberton, NJ
     08048, US, US (Residence), US (Nationality)
Inventor(s):
  YARBROUGH Graham G, 111 High Rock Road, Sandy Hook, CT 06482, US,
Legal Representative:
  SHEEHAN Kenneth J (agent), Pepper Hamilton LLP, 600 Fourteenth Street,

     NW, Hamilton Square, Washington, DC 20005-2004 (et al), US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200195585 A2-A3 20011213 (WO 0195585)
  Application: WO 2001US17858 20010601 (PCT/WO US0117858)
  Priority Application: US 2000209173 20000602
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
  CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
  KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD
  SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 9181
English Abstract

  A message queue server emulates a computer peripheral that not only
  supports communication between two mainframes, but also provides a
  gateway to open systems computers, networks, and other similar message
  queue servers. The message queue server provides protocol-to-protocol
  conversion from mainframes to today's computing systems in a manner that
  does not require businesses that own the mainframes to rewrite legacy
  applications to share data with other mainframes and open systems. The
  message queue server emulates a mainframe peripheral coupled to a first
  mainframe having a first protocol. The system includes digital storage to
  temporarily store information from the first mainframe. The system
  includes at least one manager that (i) coordinates the transfer of the
  information of the first protocol between the mainframe peripheral
  emulator and the digital storage and (ii) coordinates transfer of the
  information between the digital storage and (a) a second mainframe having
  a second protocol or (b) a computer network having a third protocol.
  Preferably, the message queue server emulates a tape drive and arranges
  the stored messages in a queue. Optionally, the message queue server
  manages the message queues as a function of information usually found in
  a standard tape label.
Fulltext Availability: Claims
Claim
... the information normally contained in a standard tape label includes at
least one of the **following** elements: volume **serial number,** data **set** name,
expiration date, **security** attributes, and data characteristics.
  43 The method as claimed in Claim 42, Rirther including creating...
  50 The apparatus as claimed in Claim 49, wherein. the controller...

  21/3,AB,K/10   (Item 7 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00798308
OBJECT AND FEATURE AUTHORIZATION FOR DIGITAL COMMUNICATION TERMINALS
AUTORISATION D'OBJET ET DE CARACTERISTIQUE POUR TERMINAUX DE COMMUNICATION
*   NUMERIQUES*
Patent Applicant/Assignee:
  GENERAL INSTRUMENT CORPORATION, 101 Tournament Drive, Horsham, PA 19044,
     US, US (Residence), US (Nationality)
Inventor(s):
  BOOTH Robert Charles, 1700 Rockcress Drive, Jamison, PA 18929, US,

TAVOLETTI Donald, 2268 Ridge View Drive, Warrington, PA 18976, US,
DIFIGLIA Michael, 1127 Westbury Road, Jenkintown, PA 19046, US,
Legal Representative:
LIPSITZ Barry R (agent), Law Offices of Barry R. Lipsitz, Building No. 8,
755 Main Street, Monroe, CT 06468, US,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200131912 A1 20010503 (WO 0131912)
Application: WO 2000US41085 20001005 (PCT/WO US0041085)
Priority Application: US 99161228 19991022; WO 99US24745 19991022
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ
DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ
LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG
SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 9125

English Abstract
A system for security and authorization processing in digital terminals.
The processing load of a security processor (250) at the terminal (150)
is reduced by configuring a multiple applications manager (MAM) (240) to
determine if frequently-transmitted application data should be
downloaded. The security processor is used by the MAM to build a local
virtual application table (260) that indicates which applications are
authorized for downloading. The security processor configures the
terminal with an authorization state so that it knows which applications
it is authorized to download, i.e., the applications (316', 334', 376')
whose required authorization state correlate with the terminal's
configured authorization state. The security processor is accessed when
the terminals authorization state changes, or when a required
authorization state of an application changes. These events are typically
relatively infrequent.
Fulltext Availability: Detailed Description
Detailed Description
...   containing new VATs with a different VAT identifier (ID), or the same
VAT with a **different Sequence Number**. When terminals receive this new or
modified VAT, the MAM module updates its internal tables...
...The MAM obtains the new authorization states for each of the virtual
applications from the **Security** Processor by using the latest authorization
requirements and the latest authorization rights (obtained via EMMs).
Similarly, the MAM obtains new authorization state information from the
Security Processor for all the virtual applications in the current VAT if
the terminal receives new...
...for-MAM state match decoder condition. The state match decoder condition
does not require a **Security** chip processing. The MPEG Packet Processor
simply checks the state of the terminal to determine...as the home-VAT ID
from the Virtual Application Config message described in Section 1 **2** .
sequence - number This field serves as a version number for the VAT.
If the sequence-number for...

21/3,AB,K/11   **(Item 8 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT

00464405
**METHOD FOR AUTHORIZING COUPLINGS BETWEEN DEVICES IN A CAPABILITY
ADDRESSABLE NETWORK**
**PROCEDE PERMETTANT D'AUTORISER DES COUPLAGES ENTRE UNITES DANS UN RESEAU
ADRESSABLE PAR CAPACITE**
Patent Applicant/Assignee:
  MOTOROLA INC,
Inventor(s):
  HARRIS Jeffrey Martin,
  WOODWARD Ernie,
  BORGSTAHL Ronald,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 9854870 A2 19981203
  Application: WO 98US11269 19980602 (PCT/WO US9811269)
  Priority Application: US 97867311 19970602
Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES
  FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD
  MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ
  VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH
  CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML
  MR NE SN TD TG
Fulltext Word Count: 24500

English Abstract
  A method for bonding to a device (901, 902). The method includes a step
  of transmitting a beacon message (843). The method also includes steps
  of: (i) selecting a beacon opcode; (ii) selecting an identifier; (iii)
  selecting an identifier type; (iv) selecting an identifier address,
  composing the beacon opcode, the identifier, the identifier type and the
  identifier address into the beacon message (843). The method also
  includes the steps of receiving, a make bond message (844), transmitting
  a make bond status message (845), receiving an ask capability message
  (846), transmitting a tell capability message (847) and receiving an
  execute capability message (848). A method for disconnecting is also
  included.
Fulltext Availability: Detailed Description
Detailed Description
... Additionally, device A may be programmed to be recognized by one or
more of the **following: a security group** unit **serial number,** a unique
security group identifier that identifies the owner, a physical address
and/or a telephone number for...

 21/3,AB,K/12   (Item 9 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00432616
A COMMUNICATION SYSTEM ARCHITECTURE
**SYSTEME, PROCEDE ET PRODUIT MANUFACTURE POUR L'ARCHITECTURE D'UN SYSTEME DE
COMMUNICATION**
Patent Applicant/Assignee:
  MCI COMMUNICATIONS CORPORATION,
  ELLIOTT Isaac K,
  STEELE Rick D,
  GALVIN Thomas J,
  LAFRENIERE Lawrence L,
  KRISHNASWAMY Sridhar,
  FORGY Glen A,

     REYNOLDS Tim E,
     SOLBRIG Erin M,
     CERF Vinton,
     GROSS Phil,
     DUGAN Andrew J,
     SIMS William A,
     HOLMES Allen,
     SMITH Robert S II,
     KELLY Patrick J III,
     GOTTLIEB Louis G,
     COLLIER Matthew T,
     WILLE Andrew N,
     RINDE Joseph,
     LITZENBERGER Paul D,
     TURNER Don A,
     WALTERS John J,
     EASTEP Guido M,
     MARSHALL David D,
     PRICE Ricky A,
     SALEH Bilal A,
Inventor(s):
     ELLIOTT Isaac K,
     STEELE Rick D,
     GALVIN Thomas J,
     LAFRENIERE Lawrence L,
     KRISHNASWAMY Sridhar,
     FORGY Glen A,
     REYNOLDS Tim E,
     SOLBRIG Erin M,
     CERF Vinton,
     GROSS Phil,
     DUGAN Andrew J,
     SIMS William A,
     HOLMES Allen,
     SMITH Robert S II,
     KELLY Patrick J III,
     GOTTLIEB Louis G,
     COLLIER Matthew T,
     WILLE Andrew N,
     RINDE Joseph,
     LITZENBERGER Paul D,
     TURNER Don A,
     WALTERS John J,
     EASTEP Guido M,
     MARSHALL David D,
     PRICE Ricky A,
     SALEH Bilal A,
Patent and Priority Information (Country, Number, Date):
     Patent: WO 9823080 A2 19980528
     Application: WO 97US21174 19971114   (PCT/WO US9721174)
     Priority Application: US 96751203 19961118; US 96751668 19961118; US
        96752271 19961118; US 96758734 19961118; US 96751209 19961118; US
        96751661 19961118; US 96752236 19961118; US 96752487 19961118; US
        96752269 19961118; US 96751923 19961118; US 96751658 19961118; US
        96752552 19961118; US 96751933 19961118; US 96751663 19961118; US
        96746899 19961118; US 96751915 19961118; US 96752400 19961118; US

      96751922 19961118; US 96751961 19961118
Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES
   FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN
   MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU
   ZW GH KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES
   FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 168195
English Abstract
   Telephone calls, data and other multimedia information is routed through
   a hybrid network which includes transfer of information across the
   internet. A media order entry captures complete user profile information
   for a user. This profile information is utilized by the system throughout
   the media experience for routing, billing, monitoring, reporting and
   other media control functions. Users can manage more aspects of a network
   than previously possible, and control network activities from a central
   site.

   21/3,AB,K/13   (Item 10 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00419907
MODULAR TRANSACTION TERMINAL
TERMINAL TRANSACTIONNEL MODULAIRE
Patent Applicant/Assignee:
   DATACARD CORPORATION,
Inventor(s):
   LEVIE Stephen Alan,
   BROWN Bradley Dale,
   LOXTERCAMP Gregory John,
   HERMANSEN Michael E,
   O'Hare Emmett E,
   GHANBARZADEH Ahmad,
Patent and Priority Information (Country, Number, Date):
   Patent: WO 9810368 A1 19980312
   Application: WO 97US15514 19970904   (PCT/WO US9715514)
   Priority Application: US 96706506 19960906
Designated States: AL AM AT AT AU AZ BA BB BG BR BY CA CH CN CU CZ CZ DE DE
   DK DK EE EE ES FI FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT
   LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SK TJ TM TR TT
   UA UG UZ VN YU GH KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE
   CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML
   MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 32322
English Abstract
   A portable, hand-held terminal comprises a core unit (30) including a
   keyboard (42), display (60), a microprocessor and memory, and a plurality
   of communication modules which can be selectively attached to the bottom
   of the core unit. The communication device may communicate with a cash
   register, check reader, computer, printer, modem, cash drawer, or
   biometric device. A terminal may be fitted with a magnetic strip reader
   (68), a smart card reader (80), a printer, a network interface card,
   and/or a modem.
 Fulltext Availability: Detailed Description
Detailed Description

... key submitted earlier.
  1 5 sec-PIN-encrypt Encrypts the PIN data using an account **number** .
  sec- **serial** -num-submit **Sets** the **serial**   **number** .
  OS Miscellaneous Calls
  format Format a string according to a format mask.
  fprintf Formatted output...functions. The struct security info is defined
as follows. This is the structure for holding **security** information.
  struct **security**
  info I
  Uchar key
  info[32];
  Uchar awk info;
  Uchar amk7info;
  Uchar dukpt -key;
  char...
...sec
  key-clear (Uchar key
  id)
  I 0 The sec
  key clear function erases the **security** key with the given ID. Any keys
  having the key id as a KEK is...
...KEY and APP-WORKING-KEY) cannot be cleared. The process will be blocked if
the **security** functions are being used by another process.
  sec-key clear returns a status.
  Return Meaning...
...ID was given.
  int sec
  key
  set-Mgmnt-mode (enum mgmnt-modes mode)
  Sets the **security** key management mode to be used by the PIN pad. This
  function is not used...KEY or APP-WORKING-KEY may be specified. The process
will be blocked if the **security** functions are being used by another process.
The kek id parameter defines the key ID...
...encryption key has not been loaded.
  int sec-serial-num
  submit(char *ser-num
  ptr)
   Sets the **serial**   **number** stored in **security** Acb. This function is
included for compatibility with 290E applications. The ser-num ptr
parameter...

 21/3,AB,K/14   **(Item 11 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
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00414550
**A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR SECURE, STORED VALUE
    TRANSACTIONS OVER AN OPEN COMMUNICATION NETWORK UTILIZING AN
    EXTENSIBLE, FLEXIBLE ARCHITECTURE**
SYSTEME, PROCEDE ET ARTICLE DE FABRICATION POUR TRANSACTIONS SECURISEES A
    VALEUR PREENREGISTREE DANS UN RESEAU OUVERT DE COMMUNICATIONS UTILISANT
    UNE ARCHITECTURE SOUPLE ET EXTENSIBLE
Patent Applicant/Assignee:
  VERIFONE INC,
  ROWNEY Kevin T B,
Inventor(s):
  ROWNEY Kevin T B,

Patent and Priority Information (Country, Number, Date):
  Patent: WO 9805011 A2 19980205
  Application: WO 97US13673 19970731   (PCT/WO US9713673)
  Priority Application: US 96692907 19960731
Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES
  FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN
  MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU
  ZW GH KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES
  FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 50185

English Abstract

   An architecture that provides a server that communicates bidirectionally
with a gateway over a first communication link, over which service
requests flow to the server for one or more merchants and/or consumers is
disclosed. Service requests are associated with a particular merchant
based on storefront visited by a consumer or credentials presented by a
merchant. Service requests result in merchant specific transactions that
are transmitted to the gateway for further processing on existing host
applications. By presenting the appropriate credentials, the merchant
could utilize any other computer attached to the Internet utilizing a SSL
or SET protocol to query the vPOS system remotely and obtain capture
information, payment administration information, inventory control
information, audit information and process customer satisfaction
information. Secure transmission of a value transfer protocol transaction
is provided between a plurality of computer systems over a public
communication system, such as the Internet. A connection is created
between two computer systems using a public network, such as the
Internet, to connect the computers. Then, digital certificates and a
digital signature are exchanged to ensure that both parties are who they
say they are. Finally, the two smart cards involved in a transaction are
read by individual computers connected utilizing the network, and the
value transfer protocol is executed over the secured network. The value
transfer protocol facilitates the exchange of money between the two smart
cards.
Fulltext Availability: Detailed Description
Detailed Description
... TID's is used. The TID's stored in the pool need not be a   **sequential
   set** of **numbers** ; in fact thev can be alpha/special/numeric
   combinations, and the TID's need have...network 2330, which is a LAN -143
   outside the corporate firewall. The Gateway, on the **secure** public
   network 2330, utilizes TCP/IP 2320 to communicate with the near-end NIP.
   GATEWAYFEATURES...
...sustain reliable operations and enable graceful evolution, it is
   designed with some important attributes, including: **Security** ,
   Availability, Performance, Scalability, and Manageability.
   Security
   Channel **Securit**
   At the application level, SET provides signed and encrypted data
   encapsulations of payment information portions...
...the transaction messages. Transport-level encryption of the entire
   message packet is required for additional **security** . The HTTPS protocol
   - i.e. @ HTTP over SSL 3.0 - is utilized between the merchants issued for
   the Gateway and one certificate for each of the merchant servers.
   Secure Channel Certificates
   SSL will require separate certificates for the Gateway and the merchants.

- 144
Availability...
...encryption and decryption algorithms used in processing SET/SSL messages
   require significant computational power. A ' **security** processor' is
   deployed with the Gateway to boost the performance of cryptographic
   algorithms. The processor...SNMP-based performance monitoring. Efficient
   process management features minimize system load and increase server
   reliability. **Security** features are provided using the SSL 3.0 protocol.
Protocol Stacks
Internet and LAN - The...Control hard-coded at Gateway to W
(d) Originating Merchant from Merchant Certificate in unwrapped **SET**
request **Number**
(e) **Sequence Number** generated at Gateway
Original Sequence generated at Gateway Number
(g) Date and Time of Original...

23/6/7   (Item 7 from file: 348)
00523254
Information search terminal and system

23/3,AB,K/1   (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01548629
Synchronization of plural databases in a database replication system
**Synchronisierung von mehreren Datenbanken in einem System fur
   Vervielfaltigung von Datenbanken**
**Synchronisation d'une pluralite de bases de donnees dans un systeme de
   replication de base de donnees**
PATENT ASSIGNEE:
  ITI, Inc., (3196750), 16 Industrial Boulevard, Paoli, PA 19301-1609, (US)
    , (Applicant designated States: all)
INVENTOR:
  Holenstein, Paul J., 9 Paul Nelms Drive, Downingtown, Pennsylvania 19335,
    (US)
  Holenstein, Bruce D., 2351 North Ridley Creek Road, Media, Pennsylvania
    19063, (US)
  Strickler, Gary E., 1511 Franklin Drive, Pottstown, Pennyslvania 19465,
    (US)
LEGAL REPRESENTATIVE:
  Brommer, Hans Joachim, Dr.-Ing. et al (2451), Lemcke, Brommer & Partner
    Patentanwalte Postfach 11 08 47, 76058 Karlsruhe, (DE)
PATENT (CC, No, Kind, Date): EP 1288796 A2   030305 (Basic)
APPLICATION (CC, No, Date):   EP 2002017282 020801;
PRIORITY (CC, No, Date): US 930641 010815
DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
   IE; IT; LI; LU; MC; NL; PT; SE; SK; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: **G06F-017/30**
ABSTRACT EP 1288796 A2
    In a database synchronization process, a block of data is read from a
    source database at the first node. A marker is assigned to the block of
    data, and the marker is then written to an audit trail at the first node.
    The marker is sent from the audit trail to a second node having a target
    database. The block of data is sent from the first node to the second
    node without passing the block of data through the audit trail. At the

second node, the block of data is stored in the target database upon
receipt at the second node of the block of data and the marker assigned
to the block of data. This process is repeated for additional blocks of
data in the source database, wherein a marker is assigned to each
subsequent block of data. In this manner, some or all of the source
database may be replicated to the target database without having to store
or pass any data in the source database in or through the audit trail at
the first node.
ABSTRACT WORD COUNT: 180
NOTE: Figure number on first page: 2
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text   Language   Update   Word Count
      CLAIMS A   (English)   200310   2415
      SPEC A   (English)   200310   14793
Total word count - document A   17208
Total word count - document B   0
Total word count - documents A + B   17208
...SPECIFICATION as only sending identifying information such as the primary
keys, with or without a CRC/ **update** timestamp/ **update sequence number,** etc.
     (**2**) Asynchronously, send an audit marker via the AUDIT to the CONS
and release all locks...

   23/3,AB,K/2   (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01430990
Method for returning merchandise
Guterucksendeverfahren
Procede de retour de marchandises
PATENT ASSIGNEE:
   Pitney Bowes Inc., (244959), World Headquarters, One Elmcroft Road,
      Stamford, Connecticut 06826-0700, (US), (Applicant designated States:
      all)
INVENTOR:
   Sansone, Ronald P., 4 Trails End Road, Weston, Connecticut 06883, (US)
   Siveyer, Ian A., 46 Quarter Horse Road, Monroe, Connecticut 06468, (US)
   Sethi, Ahjaz A., 1 Farm Hill Road, West Haven, Connecticut 06516, (US)
   Law, Robert A., 36 Powderhorn Road, Ridgefield, Connecticut 06877, (US)
   Garvey, Susan, 503 Cascade Drive, Fairfield, Connecticut 06432, (US)
   Moughty, Brian J., 25 Anthony Lane, Darien, Connecticut 06820, (US)
LEGAL REPRESENTATIVE:
   HOFFMANN - EITLE (101511), Patent- und Rechtsanwalte Arabellastrasse 4,
      81925 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 1209598 A2 020529 (Basic)
APPLICATION (CC, No, Date):   EP 2001127447 011127;
PRIORITY (CC, No, Date): US 722812 001127
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
   LU; MC; NL; PT; SE; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: **G06F-017/60** ; G09F-003/02
ABSTRACT EP 1209598 A2
   A Merchandise Return Label may be printed on a buyer's computer printer
   and paid for by the seller's postage meter. Goods mailed with the
   Merchandise Return Label will be considered metered mail. Returned goods
   may be delivered directly to the buyer, and postal employees will not

have to manually complete the Merchandise Return Label. Since the mailing
of the returned goods was paid for by a postage meter, the Post Office
would not have to receive payment from the seller when the seller
receives the package.
ABSTRACT WORD COUNT: 87
NOTE: Figure number on first page: 1
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text Language   Update   Word Count
      CLAIMS A (English) 200222   512
      SPEC A   (English) 200222   3921
Total word count - document A   4433
Total word count - document B   0
Total word count - documents A + B   4433
...SPECIFICATION return of the goods, return process 301 will inform buyer
   200 to enter postal meter **serial   number** 58 (Fig. 2) and **security**
   code 59 into computer 201 so that the above information will be received
   by return...

   23/3,AB,K/3   (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
01147875
Electronic payment system with inexpensive illegal acts detection scheme
**Elektronisches   Zahlungssystem mit billigem Schema zum Ermitteln von
      illegallen Handlungen**
**Systeme electronique de paiement avec schema de detection d'actions
      illegales peu couteux**
PATENT ASSIGNEE:
   KABUSHIKI KAISHA TOSHIBA, (213137), 72, Horikawa-cho, Saiwai-ku,
      Kawasaki-shi, Kanagawa 212-8572, (JP), (Applicant designated States:
      all)
INVENTOR:
   Yoshida, Hideki, 212-2-10, Ichibakami-cho, Tsurumi-ku, Yokohama-shi,
      Kanagawa-ken, (JP)
   Imai, Toru, 1-12-1-E303, Tenjin-cho, Fuchu-shi, Tokyo-to, (JP)
LEGAL REPRESENTATIVE:
   HOFFMANN - EITLE (101511), Patent- und Rechtsanwalte Arabellastrasse 4,
      81925 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 1001392 A2 000517 (Basic)
                              EP 1001392 A3 030108
APPLICATION (CC, No, Date):   EP 2000102257 960313;
PRIORITY (CC, No, Date): JP 9552142 950313
DESIGNATED STATES: DE; FR; GB
EXTENDED DESIGNATED STATES: AL; LT; LV; SI
RELATED PARENT NUMBER(S) - PN (AN):
   EP 732662 (EP 96103963)
INTERNATIONAL PATENT CLASS: G07F-019/00; **G06F-017/60**
ABSTRACT EP 1001392 A2
   The present invention relates to a computer-based electronic payment
   system comprising a payer's check issuing computer (100, 100A) for
   issuing an electronic check, a payee's check processing computer (200,
   200A) for receiving and processing the electronic check from the payee's
   check issuing computer (100, 100A) and transmitting each accepted
   electronic check; and a transaction executing computer (300, 300A) for
   receiving and processing the electronic check transmitted from the

payee's check transmitted from the payee's check processing computer (200, 200A). The electronic check issued by the payee's check issuing computer (100, 100A) also has an issue time data indicating a time of issue of the electronic check. The payee's processing computer (200, 200A) records a check identifier of each electronic check being accepted by the payee's check processing computer (200, 200A) during a first prescribed period of time and refuses an acceptance of the received electronic check in case a time of issue is older than the first prescribed period of time or the check identifier is identical to any recorded check identifier of an already accepted electronic check. To the contrary, it accepts the received electronic check when the acceptance is not refused.

ABSTRACT WORD COUNT: 194
NOTE: Figure number on first page: 1
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200020	1761
SPEC A	(English)	200020	6791
Total word count - document A			8552
Total word count - document B			0
Total word count - documents A + B			8552

...SPECIFICATION s check issuing system 100 is stored in a consumer identifier memory unit 1 in **advance** . A check **serial** **number** memory unit **2** stores a previously issued check serial number, and outputs a new check serial number by...

 23/3,AB,K/4 **(Item 4 from file: 348)**
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
01056450
A method for authentification item
Ein Verfahren fur die Beglaubigung von Elementen
Un procede pour l'authentification d'elements
PATENT ASSIGNEE:
  YEDA RESEARCH & DEVELOPMENT COMPANY, LTD., (268946), Weizman Institute of Science P.O. Box 95, 76100 Rehovot, (IL), (Applicant designated States: all)
INVENTOR:
  Naor, Moni, 5 Beit-Zori Street, Tel Aviv 69122, (IL)
  Nissim, Yaacov, 28 Haruzim Street, Ramat-Gan 52525, (IL)
LEGAL REPRESENTATIVE:
  Joly, Jean-Jacques et al (39741), Cabinet Beau de Lomenie 158, rue de l'Universite, 75340 Paris Cedex 07, (FR)
PATENT (CC, No, Kind, Date):   EP 932109 A2   990728 (Basic)
                               EP 932109 A3   030618
APPLICATION (CC, No, Date):   EP 99400130 990121;
PRIORITY (CC, No, Date): US 10571 980122
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: **G06F-017/30** ; H04L-009/32
ABSTRACT EP 932109 A2
    A memory containing an authenticated search tree that serves for authenticating membership or non membership of items in a set. The authenticated search tree including a search tree having nodes and leaves

and being associated with a search scheme. The nodes including dynamic
search values and the leaves including items of the set The nodes are
associated, each, with a cryptographic hash function value that is
produced by applying a cryptographic hash function to the cryptographic
hash values of the children nodes and to the dynamic search value of the
node. The root node of the authenticated search tree is authenticated by
a digital signature.
ABSTRACT WORD COUNT: 106
NOTE: Figure number on first page: 1
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text   Language   Update   Word Count
      CLAIMS A   (English)   9930   531
      SPEC A   (English)   9930   6284
Total word count - document A   6815
Total word count - document B   0
Total word count - documents A + B   6815
...SPECIFICATION a conventional 2-3 delete item step is executed, namely:
      1. Delete each expired certificate **serial   number** from the 2 -3
   tree, **updating** the values of the nodes on the deletion path.
      Likewise, in order to insert an...

   23/3,AB,K/5   (Item 5 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
00811015
**Multimedia playing apparatus utilizing synchronization of scenario-defined
   processing time points with playing of finite-time monomedia item**
**Multimedia-Wiedergabeeinrichtung   mit   Synchronisation von in Skripten
   definierten Ausfuhrungszeitpunkten mit der Wiedergabe eines in der Zeit
   begrenzten Monomedia-Objekts**
**Appareil de   reproduction   multimedia   utilisant une synchronisation
   d'instants d'execution definis dans un scenario avec la reproduction
   d'un item monomedia limite dans le temps**
PATENT ASSIGNEE:
  MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., (216887), 1006, Oaza Kadoma,
    Kadoma-shi, Osaka-fu, (JP), (Proprietor designated states: all)
INVENTOR:
  Asai, Kayoko, 5-49-15-206, Takasago, Katsushika-ku, Tokyo, (JP)
  Sato, Makoto, 1-3-6, Hachiman-cho, Fuchu-shi, Tokyo, (JP)
  Minemura, Atsushi, 1-22-4, Higashi Kashiwa, Kashiwa-shi, Chiba-ken, (JP)
  Oka, Toshio, 2432-3, Nase-cho, Totsuka-ku, Yokohama, (JP)
LEGAL REPRESENTATIVE:
  Finsterwald, Martin, Dr. et al (75231), Manitz, Finsterwald & Partner GbR
    Martin-Greif-Strasse 1, 80336 Munchen, (DE)
PATENT (CC, No, Kind, Date):   EP 753820 A1   970115 (Basic)
                               EP 753820 B1   020925
APPLICATION (CC, No, Date):   EP 96111195 960711;
PRIORITY (CC, No, Date): JP 95174662 950711; JP 95306372 951101
DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS: **G06F-017/30**
ABSTRACT EP 753820 A1
   A multimedia playing apparatus plays hypermedia titles each consisting
of a plurality of monomedia objects including at least one finite time
monomedia object such as a video object, which is formatted as a sequence
of fixed-length playing sections such as video frames and functions as a

base-axis object for providing a timing reference. The apparatus executes
playing of a hypermedia title in accordance with processing time points
specified as respective numbers of the playing sections, and stores and
utilizes a plurality of sets of synchronization trigger data.each of
which designates that playing of a specific monomedia object other than
the base-axis object is to be started, or is to be ended, at a specific.
processing time point, with the synchronization trigger data sets being
successively accessed and used as the corresponding processing time
points are respectively reached during playing of the hypermedia title.
ABSTRACT WORD COUNT: 145
NOTE: Figure number on first page: 5
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB97	2462
CLAIMS B	(English)	200239	2561
CLAIMS B	(German)	200239	2211
CLAIMS B	(French)	200239	3201
SPEC A	(English)	EPAB97	19925
SPEC B	(English)	200239	20567

Total word count - document A   22391
Total word count - document B   28540
Total word count - documents A + B   50931
...SPECIFICATION means, obtaining the sets of synchronization trigger data
   from the scenario data and
    - storing said **sets sequentially numbered** locations in said
   internal memory means,
    - for setting the processing event counter means and playing...which are
   of identical length. Such a video object will be referred to in the
   following as the base-axis object of the hypermedia title. For example
   if the base-axis...
...playing progression counter.
     It should be noted that the term "played" as used in the **following**
   description and in the claims is to be understood in a very broad sense,
   i...
...to the other monomedia objects of the hypermedia title (these being
   referred to in the **following** as the non base-axis objects) with the
   playing progression of the base-axis object...means, obtaining the sets
   of synchronization trigger data from the scenario data and storing the
   sets in **sequentially   numbered** locations in the internal memory
   means,
     Set the processing event counter means and playing progression...

   23/3,AB,K/6   (Item 6 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
00785432
Electronic payment system with inexpensive illegal acts detection scheme
Elektronisches Zahlungssystem mit preisgunstiger Einrichtung zur Ermittlung
   von gesetzeswidrigen Taten
Systeme de paiement electronique avec arrangement peu couteux pour la
   detection d'actions illegales
PATENT ASSIGNEE:
  KABUSHIKI KAISHA TOSHIBA, (213130), 72, Horikawa-cho, Saiwai-ku,
    Kawasaki-shi, Kanagawa-ken 210-8572, (JP), (Proprietor designated
    states: all)

INVENTOR:
  Yoshida, Hideki, 212-2-10, Ichibakami-cho, Tsurumi-ku, Yokohama-shi,
    Kanagawa-ken, (JP)
  Imai, Toru, A201-32-4, Komaoka, Tsurumi-ku, Yokohama-shi, Kanagawa-ken,
    (JP)
LEGAL REPRESENTATIVE:
  Zangs, Rainer E., Dipl.-Ing. et al (72561), Hoffmann Eitle, Patent- und
    Rechtsanwalte, Arabellastrasse 4, 81925 Munchen, (DE)
PATENT (CC, No, Kind, Date):   EP 732662 A2 960918 (Basic)
                               EP 732662 A3 970212
                               EP 732662 B1 010627
APPLICATION (CC, No, Date):   EP 96103963 960313;
PRIORITY (CC, No, Date): JP 9552142 950313
DESIGNATED STATES: DE; FR; GB
RELATED DIVISIONAL NUMBER(S) - PN (AN):
  EP 1001392 (EP 2000102257)
INTERNATIONAL PATENT CLASS: **G06F-017/60** ; G07F-007/10
ABSTRACT EP 732662 A2

     A computer-based electronic payment system, in which a payer's check
    issuing computer issues an electronic check having a check identifier
    and an issue time, where the check identifier includes a payer
    identifier for uniquely identifying a payer and a payment identifier for
    uniquely identifying a payment. Then, at a payee's check processing
    computer receiving the electronic check from the payer and at a bank's
    check processing computer receiving the electronic check transmitted
    from the payee, a check identifier of each electronic check accepted
    during a prescribed period of time past of a current time is recorded,
    and a received electronic check is refused when the issue time of the
    received electronic check is older than the prescribed period of time
    past of the current time or the check identifier of the received
    electronic check is identical to any recorded check identifier of an
    already accepted electronic check, or a received electronic check is
    accepted when the acceptance is not refused. (see image in original
    document)
ABSTRACT WORD COUNT: 190
NOTE: Figure number on first page: 1
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB96	2730
CLAIMS B	(English)	200126	1537
CLAIMS B	(German)	200126	1438
CLAIMS B	(French)	200126	1645
SPEC A	(English)	EPAB96	6793
SPEC B	(English)	200126	5724

Total word count - document A   9525
Total word count - document B   10344
Total word count - documents A + B   19869
...SPECIFICATION s check issuing system 100 is stored in a consumer
  identifier memory unit 1 in **advance** . A check **serial number** memory
  unit **2** stores a previously issued check serial number, and outputs a
  new check serial number by...

  23/3,AB,K/8   (Item 8 from file: 348)

00416432
Time interval triggering and hardware histogram generation
Zeitintervall-Triggerung und Hardware Erzeugung von Histogramm
Declenchement   d'intervalle   de   temps   et   generation   par   materiel
    d'histogramme

PATENT ASSIGNEE:
  Hewlett-Packard Company, (206031), Mail Stop 20 B-O, 3000 Hanover Street,
    Palo Alto, California 94304, (US), (applicant designated states:
    DE;FR;GB)
INVENTOR:
  Ho, Leland Murray, 487 S. Taaffe Street, Apt. 3, Sunnyvale, CA 94086,
    (US)
  Stephenson, Paul S., 5247 Forrest Hill Drive, Pleasanton, CA 94566, (US)
  Schmitz, John S., 942 Chelin Drive, Sunnyvale, CA 94087, (US)
LEGAL REPRESENTATIVE:
  Liesegang, Roland, Dr.-Ing. et al (7741), FORRESTER & BOEHMERT
    Franz-Joseph-Strasse 38, 80801 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 418499 A2 910327 (Basic)
                              EP 418499 A3 910522
                              EP 418499 B1 961218
APPLICATION (CC, No, Date):   EP 90113953 900720;
PRIORITY (CC, No, Date): US 409183 890919
DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS: **G06F-017/00** ; G01R-023/00
ABSTRACT EP 418499 A2

    A time interval data processing circuit uses a pipelined hardware data
processor to perform the conversion of incoming time stamp data into time
interval results. These results can be further processed into a hardware
accumulated histogram or can be compared against limits to determine if a
time interval trigger condition has occurred.
    In the first stage of the pipeline, the processing circuit subtracts
the two time stamps from the current and the previous event to determine
the time interval between events being measured. The second stage checks
the measurement result against minimum and maximum limits and determines
which bin the measurement belongs in. The limit testing determines if the
measurement fits the histogram limits and also yields the data required
to perform measurement triggering on time intervals. The third stage of
the pipeline increments the appropriate histogram bin in RAM. The first
and third stages of the pipeline are themselves pipelined in substages.
    To facilitate pipelining in storing the histogram results, the circuit
uses dual port RAMs to achieve a fast data accumulation rate. When
histogramming, the stored bin data must be incremented each time a new
measurement occurs. The third pipeline stage read, increment, write
operation is pipelined in substages by adding a latch in the data
incrementing loop for the Dual Port RAM. The latch also provides a way of
avoiding access conflicts when the same bin is incremented repeatedly.
ABSTRACT WORD COUNT: 236
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	515
CLAIMS B	(English)	EPAB96	1161
CLAIMS B	(German)	EPAB96	1029
CLAIMS B	(French)	EPAB96	1447
SPEC A	(English)	EPABF1	4356
SPEC B	(English)	EPAB96	4450

```
Total word count - document A          4871
Total word count - document B          8087
Total word count - documents A + B    12958
```
...SPECIFICATION 305. Latch 305 comprises a 2:1 multiplexer, with output
  controlled by the relatch signal, **followed** by a flip-flop. If **two**
  sequential bin **numbers** are equal, the read and write addresses are
  equal, the relatch output of comparator 311...

 23/3,AB,K/9   **(Item 1 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.
01070899
HIGH-PERFORMANCE CHANGE CAPTURE FOR DATA WAREHOUSING
CAPTURE DE CHANGEMENT HAUTE PERFORMANCE POUR ENTREPOSAGE DE DONNEES
Patent Applicant/Assignee:
  ORACLE INTERNATIONAL CORPORATION, 500 Oracle Parkway, M/S 5OP7, Redwood
    Shores, CA 94065, US, US (Residence), US (Nationality)
Inventor(s):
  NORCOTT William D, 18 Powers Road, Hollis, NH 03049, US,
Legal Representative:
  CARLSON Stephen C (agent), Ditthavong & Carlson, P.C., 10507 Braddock Rd,
    Suite A, Fairfax, VA 22032, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 2003100666 A2 20031204 (WO 03100666)
  Application: WO 2003US16402 20030523 (PCT/WO US0316402)
  Priority Application: US 2002383387 20020524; US 2003435703 20030512
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
  CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
  KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO
  RU SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW
  (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
  SI SK TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 6097
English Abstract
  A method and software for change data capture is described, in which
  change data is extracted from a recovery log in a single pass and stored
  into multiple database objects, such as change tables. The change data
  indicates modifications that has been performed to multiple source
  objects that correspond to the multiple database objects. In a preferred
  embodiment, this can be accomplished with a single multi-table insert SQL
  statement.
Main International Patent Class: **G06F-017/30**
Fulltext Availability: Detailed Description
Detailed Description
... values (OP 237 column with 'UN') of the same operation will have the
  same row **sequence** **number** , because these **two** records are for the
  same **change** operation on the OLTP database 1 122 (an update operation).
  Although not depicted in FIG...

 23/3,AB,K/10   **(Item 2 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT

01066487
METHOD AND APPARATUS FOR CHANGE DATA CAPTURE IN A DATABASE SYSTEM
PROCEDE ET APPAREIL DE CHANGEMENT DE SAISIE DE DONNEES DANS UN SYSTEME DE BASE DE DONNEES

Patent Applicant/Assignee:
  ORACLE INTERNATIONAL CORPORATION, 500 Oracle Parkway, M/S 50P7, Redwood
    Shores, CA 94065, US, US (Residence), US (Nationality), (For all
    designated states except: US)
Patent Applicant/Inventor:
  NORCOTT William D, 18 Powers Road, Hollis, NH 03049, US, US (Residence),
    US (Nationality), (Designated only for: US)
  BREY Michael, c/o Oracle International Corporation, 500 Oracle Parkway,
    Redwood Shores, CA 94065, US, US (Residence), -- (Nationality),
    (Designated only for: US)
  GALANES John, c/o Oracle International Corporation, 500 Oracle Parkway,
    Redwoodshores, CA 94065, US, US (Residence), -- (Nationality),
    (Designated only for: US)
  BINGHAM Paula, c/o Oracle International Corporation, 500 Oracle Parkway,
    Redwood Shores, CA 94065, US, US (Residence), -- (Nationality),
    (Designated only for: US)
  GUZMAN Raymond, c/0 Oracle International Corporation, 500 Oracle Parkway,
    Redwwod Shores, CA 94065, US, US (Residence), -- (Nationality),
    (Designated only for: US)
Legal Representative:
  CARLSON Stephen C (et al) (agent), Ditthavong & Carlson, P.C., 10507
    Braddock Rd, Suite A, Fairfax, VA 22032, US,

English Abstract
  A method of change data captured is disclosed, in which modifications
  made to on-line transaction processing (OLTP) tables(e.g. inserts,
  updates, and deletes) are maintained in a database object, referred to as
  a change table. The change data in the change table is then made
  available to analysis applications in a controlled manner, such as in
  accordance with a publication-subscription model.
Main International Patent Class: **G06F-017/30**
Fulltext Availability: Detailed Description
Detailed Description
... values (OP 237 column with 'UN') of the same operation will have the
  same row **sequence number** , because these **two** records are for the
  same **change** operation on the OLTP database 1 1 3 (an update operation).

Although not depicted in...

23/3,AB,K/11   (Item 3 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.
01051390
DATABASE SYSTEM
SYSTEME DE BASES DE DONNEES
Patent Applicant/Assignee:
  ISOCRA LIMITED, Abberley House, Granhams Road, Great Shelford, Cambridge
    CB2 5LG, GB, GB (Residence), GB (Nationality), (For all designated
    states except: US)
Patent Applicant/Inventor:
  HOVERD Timothy Stephen, 5 Haggis Gap, Fulbourn, Cambridge CB1 5HD, GB, GB
    (Residence), GB (Nationality), (Designated only for: US)
  SHEEHAN Dean Alan, 72 Melvin Way, Histon, Cambridge CB4 9HZ, GB, GB
    (Residence), GB (Nationality), (Designated only for: US)
  HOWLETT Denis Ronald, 30 Tenison Road, Cambridge CB1 5DW, GB, GB
    (Residence), GB (Nationality), (Designated only for: US)
Legal Representative:
  EVENS Paul Jonathan (et al) (agent), Maguire Boss, 5 Crown Street, St.
    Ives, Canbridgeshire PE27 5EB, GB,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200381464 A2 20031002 (WO 0381464)
  Application: WO 2003GB1233 20030321 (PCT/WO GB0301233)
  Priority Application: GB 20026810 20020322
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
  CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
  KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PH PL PT
  RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
  (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE
  SI SK TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 12311
English Abstract
  The present invention relates to a database system. In particular, the
  invention relates to a system for accessing databases, and specifically,
  but not exclusively relational databases, over a computer network.The
  database access system comprises a database access object (20), which
  operates on a client computer that functions as an interface between a
  database client (10) and a database server (12). The database object
  receives database queries from the client and returns a response to the
  queries to the client. Each database access object maintains a cache of
  data and if the response data is available in the cache provides the
  response from the cached data. Otherwise, a query is passed to the
  database server to retrieve data to make a response. Upon a change in the
  data cached in the client, the client sends a message to other like
  database access objects to indicate to the other database access objects
  the extent to which the data in their caches is invalid.
Main International Patent Class: **G06F-017/30**
Fulltext Availability: Detailed Description
Detailed Description

... be cleared.
   Update
   Updates may be performed against tables or tables being used to source
   sequence numbers . These **two** are considered separately. To **update** a
   table, modify it to include version update and version restriction in
   where clause; delegate...

 23/3,AB,K/12   (Item 4 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
00997933
A TICKET AND A METHOD OF BILLING
BILLET ET PROCEDE DE FACTURATION
Patent Applicant/Assignee:
   JE SYSTEMKONSULT AB, Svanvagen 16, S-183 77 Taby, SE, SE (Residence), SE
      (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
   EHRENSVARD Jakob, Svanvagen 16, S-183 77 Taby, SE, SE (Residence), SE
      (Nationality), (Designated only for: US)
   EHRENSVARD Stina, Svanvagen 16, S-183 77 Taby, SE, SE (Residence), SE
      (Nationality), (Designated only for: US)
Legal Representative:
   HINZ Udo (et al) (agent), Zacco Sweden AB, Box 23101, S-104 35 Stockholm,
      SE,
Patent and Priority Information (Country, Number, Date):
   Patent: WO 200327933 A1 20030403 (WO 0327933)
   Application: WO 2002SE1742 20020924   (PCT/WO SE0201742)
   Priority Application: US 2001324070 20010924; US 2001324280 20010925; US
      2001325175 20010928
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
   CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
   KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO
   RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
   (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR
   (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
   (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
   (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 8867
English Abstract
   The invention relates to a method of attaching a billing ticket (22) to a
   transfer protocol such as HTTP for communication over an open network
   (10) for data and telecommunication between an end-user (14), a service
   provider (12) and a content provider (18), and a ticket (22) therefore.
Main International Patent Class: **G06F-017/60**
Fulltext Availability: Detailed Description
Detailed Description
... Internet 10 may have several IP numbers mapped to a single URL,
   resulting in a **different** IP **number** for **subsequent** DNS queries.
   A **following** HTTP GET/POST operation uses a retrieved IP number to
   address the CP 18, where...

 23/3,AB,K/15   (Item 7 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00965595
CONSISTENT READ IN A DISTRIBUTED DATABASE ENVIRONMENT
LECTURE COHERENTE DANS UN ENVIRONNEMENT DE BASE DE DONNEES DISTRIBUEE
Patent Applicant/Assignee:
  ORACLE INTERNATIONAL CORPORATION, 500 Oracle Parkway, Redwood Shores, CA
    94065, US, US (Residence), US (Nationality)
Inventor(s):
  GANESH Amit, 1426 Brookglen Drive, San Jose, CA 95129, US,
  BAMFORD Roger, 555 Manzanita Way, Woodside, CA 94062, US,
Legal Representative:
  EICHSTAEDT Cheryl (agent), Hickman Palermo Truong & Becker, LLP, 1600
    Willow Street, San Jose, CA 95125, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200299701 A2-A3 20021212 (WO 0299701)
  Application: WO 2002US16886 20020529 (PCT/WO US02016886)
  Priority Application: US 2001295104 20010601; US 2002119672 20020409
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
  CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
  KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO
  RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 8560
English Abstract
  Techniques are provided for determining which data item version to supply
  to a query. According to the techniques, the determination is made by
  associating a new field, which indicates the time a data item version was
  current, with each data item version; associating a new field with each
  query, which indicates the last change that the query must see made by
  the transaction to which the query belongs; and determining which data
  item version to use to answer the query based, in part, on a comparison
  between the values of the two new fields.
Main International Patent Class: **G06F-017/30**
Fulltext Availability: Detailed Description
Detailed Description
... LATEST-MISSINGTRANSACTION will be zeroed out and the
  OTHER-TRANSACTIONS-ROLLEDOUT-INDICATOR will not be **set** . The **SEQUENCE –**
  NUMBER -OF-MOST-RECENTMISSING- **CHANGE** will be zeroed out.
  Assume that rollouts are performed on data item version 1 00...

  23/3,AB,K/16   (Item 8 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00963611
EXTENDED WEB ENABLED MULTI-FEATURED BUSINESS TO BUSINESS COMPUTER SYSTEM
  FOR RENTAL VEHICLE SERVICES
SYSTEME INFORMATIQUE INTERENTREPRISES A ELEMENTS MULTIPLES A ACCES INTERNET
  POUR SERVICES DE LOCATION DE VEHICULES
Patent Applicant/Assignee:
  THE CRAWFORD GROUP INC, 600 Corporate Park Drive, St. Louis, MO 63105, US
  , US (Residence), US (Nationality), (For all designated states except:
  US)

Patent Applicant/Inventor:
  WEINSTOCK Timothy Robert, 1845 Highcrest Drive, St. Charles, MO 63303, US
    , US (Residence), US (Nationality), (Designated only for: US)
  DE VALLANCE Kimberly Ann, 2037 Silent Spring Drive, Maryland Heights, MO
    63043, US, US (Residence), US (Nationality), (Designated only for: US)
  HASELHORST Randall Allan, 1016 Scenic Oats Court, Imperial, MO 63052, US,
    US (Residence), US (Nationality), (Designated only for: US)
  KENNEDY Craig Stephen, 9129 Meadowglen Lane, St. Louis, MO 63126, US, US
    (Residence), US (Nationality), (Designated only for: US)
  SMITH David Gary, 10 Venice Place Court, Wildwood, MO 63040, US, US
    (Residence), US (Nationality), (Designated only for: US)
  TINGLE William T, 17368 Hilltop Ridge Drive, Eureka, MO 63025, US, US
    (Residence), US (Nationality), (Designated only for: US)
  KLOPFENSTEIN Anita K, 433 Schwarz Road, O'Fallon, IL 62269, US, US
    (Residence), US (Nationality), (Designated only for: US)
Legal Representative:
  HAFERKAMP Richard E (et al) (agent), Howell & Haferkamp, L.C., Suite
    1400, 7733 Forsyth Blvd., St. Louis, MO 63105-1817, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200297700 A2 20021205 (WO 0297700)
  Application: WO 2001US51431 20011019 (PCT/WO US0151431)
  Priority Application: US 2000694050 20001020
Parent Application/Grant:
  Related by Continuation to: US 2000694050 20001020 (CIP)
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
  CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
  KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU
  SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 237932

French Abstract
  La presente invention concerne un systeme informatique de transaction
  entre entreprises qui dans un mode de realisation prefere est destine a
  fournir des services de location de vehicules pour des utilisateurs a
  demande elevee comportant un portail de reseau Internet grace auquel
  l'utilisateur a demande elevee peut acceder a une pluralite de
  fournisseurs de services comportant un reseau informatique d'entreprise
  integre pour au moins un fournisseur de services de location de
  vehicules. Le reseau informatique de fournisseur de services de location
  de vehicules est configure pour l'interconnexion d'une pluralite de
  succursales de diversite geographique, presentant le catalogue de leurs
  vehicules de location disponibles et des programmes les concernant ainsi
  que pour la gestion de toutes les donnees de transaction concernant son
  entreprise. Le portail de reseau Internet permet une connectivite et une
  transferabilite universelles pour une association d'entreprises a
  plusieurs niveaux qui placent regulierement des demandes elevees d'achat
  de location avec son associe commercial et egalement les autres
  fournisseurs de services qui peuvent ou non avoir le meme systeme et
  logiciel informatique d'entreprise integre. L'utilisation du procede et
  de l'appareil de la presente invention permet de placer, de grands
  volumes de transactions de location, de les controler, de les modifier en

cours d'operation, et de les conclure avec des operations de comptabilite
financiere et paiement pratiquement sans intervention humaine.
Main International Patent Class: **G06F-017/60**
Fulltext Availability: Detailed Description
Detailed Description
... two businesses which provide significant advantages over its prior
embodiment. More particularly,, the inventors have **succeeded**
in replacing the dedicated pipeline access of the existing
system with a web portal allowing...A's then execute the ARMS Generate
Transaction Credits (AM108OV1) program passing the Transmission Control
Sequence ID **Number** , **Group** Control **Sequence** ID **Number** , Vendor
Transaction ID and the Execution Code of 'RI (for Rental Notification) .
- IF processing a...

23/3,AB,K/17   (Item 9 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00961508
SYNCHRONOUS CHANGE DATA CAPTURE IN A RELATIONAL DATABASE
**CAPTURE DE DONNEES DE CHANGEMENT SYNCHRONE DANS UNE BASE DE DONNEES
    RELATIONNELLE**
Patent Applicant/Assignee:
  ORACLE INTERNATIONAL CORPORATION, 500 Oracle Parkway, MS 5OP7, Redwood
    Shores, CA 94065, US, US (Residence), US (Nationality), (For all
    designated states except: US)
Patent Applicant/Inventor:
  NORCOTT William D, 18 Powers Road, Hollis, NH 03049, US, US (Residence),
    US (Nationality), (Designated only for: US)
Legal Representative:
  CARLSON Stephen C (et al) (agent), Ditthavong & Carlson, P.C., 10507
    Braddock Rd, Suite A, Fairfax, VA 22032, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200295632 A2-A3 20021128 (WO 0295632)
  Application: WO 2002US16470 20020524 (PCT/WO US0216470)
  Priority Application: US 2001863422 20010524
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CZ
  DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KR KZ
  LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD
  SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZM ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 6995
English Abstract
  A synchronous change data capture system and methodology are described in
  which, for each statement of a transaction, a transaction identifier
  (233, 241) that uniquely identifies each transaction is recorded along
  with the change data (231). When the transaction is committed, the
  transaction identifier (233, 241) and a system change number (243) for
  the commit is recorded in a transaction table (250). To identify the
  commit system change number for each statement in the change data, the
  transaction identifier (233, 241) in the change data is used to fetch the
  commit system change number (243) from the transaction table (250).

Main International Patent Class: **G06F-017/30**
Fulltext Availability: Detailed Description
Detailed Description
... values (OP 237 column with 'UN') of the same operation will have the
    same row **sequence number,** because these **two** records are for the
    same **change** operation on the OLTP database 1 1 3 (an update operation).
    Although not depicted in...

 23/3,AB,K/20   **(Item 12 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
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00903278
E-COMMERCE APPLICATION BUILT USING WORKFLOWS ON A WORKFLOW ENGINE AND
    METHODS THEREOF
APPLICATION DE COMMERCE ELECTRONIQUE CONSTRUITE AU MOYEN D'UN FLUX DE
    TRAVAUX SUR UN MOTEUR DE FLUX DE TRAVAUX ET PROCEDES CORRESPONDANTS
Patent Applicant/Assignee:
  ASERA INC, 600 Clipper Drive, Suite 100, Belmont, CA 94002, US, US
    (Residence), US (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
  LIANG John Sae, 205 Houghton St., Mountain View, CA 94041, US, US
    (Residence), US (Nationality), (Designated only for: US)
Legal Representative:
  WHEELER Jeffrey (agent), McAndrews, Held, and Malloy, Ltd., 500 W.
    Madison, Suite 3400, Chicago, IL 60661, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200237368 A2-A3 20020510 (WO 0237368)
  Application: WO 2001US26194 20010822 (PCT/WO US0126194)
  Priority Application: US 2000702148 20001030
Parent Application/Grant:
  Related by Continuation to: US 2000702148 20001030 (CON)
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
  CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
  KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU
  SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 7237
English Abstract
  An e-commerce or business application built using workflows for execution
  as a series of steps by a workflow (or interpreter) engine. The steps
  might be arranged as a coded series of steps (i.e., a flowchart or the
  like). A page (or series of pages) is provided, each of which has content
  and actions. An interactive flow layer is also provided for facilitating
  the transition from one screen (or workflow) to another. An associated
  view layer is used to implement the series of steps within the screen.
  The view might implement at least one interactive step, which takes data
  incoming into the step and renders the data into a viewable language,
  such as HTML. This layer is known as the presentation layer. An address,
  name of the action, and sequence number are associated with each such
  interactive step. The elements displayed by the browser can be clicked
  upon and the address returned so that the steps can be navigated through

without losing track of the sequence steps. At least one state variable,
global or otherwise, is used to maintain persistence of certain data
between the steps. As each of the steps is executed, the sequence number
is incremented. If a user tries to move around in the sequence, the
sequence number should match the one that is stored in server memory in
order for a display to be valid. Actions can further be labeled as
repeatable, non-repeatable, or conditional repeatable. Non-repeatable
actions require the sequence numbers to match. Repeatable actions do not
depend on the sequence numbers. Conditional repeatable actions are
repeatable under certain conditions.
Main International Patent Class: **G06F-017/60**
International Patent Class: **G06F-017/30** ...
Fulltext Availability: Detailed Description
Detailed Description
... 3 and 4 (initially) associated with the global states 464. If the global
states are **changed,** then these **two sequence numbers** will be incremented to 5
and 6 respectively. The IS can be specified to depend...

 23/3,AB,K/21   (Item 13 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00897532
METHOD AND APPARATUS FOR DATA PROCESSING
PROCEDE ET APPAREIL DE TRAITEMENT DE DONNEES
Patent Applicant/Assignee:
  MAXIMUM AVAILABILITY LIMITED, 46 Mulgan Way, Browns Bay, Auckland, NZ, NZ
     (Residence), NZ (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
  TARBELL James Scott, 36 Waitohu Road, York Bay, Eastbourne, Wellington,
     US, US (Residence), US (Nationality), (Designated only for: US)
Legal Representative:
  HAWKINS Michael Howard (et al) (agent), Baldwin Shelston Waters, P.O. Box
     852, Wellington, NZ,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200231696 A1 20020418 (WO 0231696)
. Application: WO 2001NZ206 20011001 (PCT/WO NZ0100206)
  Priority Application: NZ 507386 20001009
Designated States: AE AG AL AM AT AT (utility model) AU AZ BA BB BG BR BY
  BZ CA CH CN CO CR CU CZ CZ (utility model) DE DE (utility model) DK DK
  (utility model) DM DZ EC EE EE (utility model) ES FI FI (utility model)
  GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV
  MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SK (utility
  model) SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 4139
English Abstract
  The invention relates to data processing methods and systems including: a
  method of database replication in which information strings are assigned
  to serialisation groups for processing. A method of memory management in
  which data is read from a storage space area whilst no data is written to
  it. A method of replicating a database in which a dynamic table is

created to provided processing information for database members. A method
of replicating a database wherein tasks are allocated to program
components without program components interacting.
Main International Patent Class: **G06F-017/30**
Fulltext Availability: Detailed Description
Detailed Description
... is present in the MBIX index. If so, operation proceeds to step 13 and a
serialisation group number and database file index (DBFIDX) is returned and
processing continues within the assigned serialisation group...
...obtained from MBIX table 1 0 than from MXSGMBAS database 9
   This method gives the **following**, significant, performance benefits.
   1. The serialisation groups do not need to search for a member...
...storage unit has a storage unit header 20. The storage unit header 20
gives the **number** of **serialisation groups** which have journal entries in the
storage unit. Each data segment consists of a storage...

23/3,AB,K/22   (Item 14 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00822257
AUTHENTICITY VERIFICATION METHOD AND APPARATUS
PROCEDE DE VERIFICATION D'AUTHENTICITE ET APPAREIL ASSOCIE
Patent Applicant/Assignee:
  CROSSOFF INC, Suite 900, 1809 Barrington Street, Halifax, Nova Scotia B3J
    3K8, CA, CA (Residence), CA (Nationality), (For all designated states
    except: US)
Patent Applicant/Inventor:
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    3K8, CA, CA (Residence), CA (Nationality), (Designated only for: US)
  HAYES Mike, Suite 900, 1809 Barrington Street, Halifax, Nova Scotia B3J
    3K8, CA, CA (Residence), CA (Nationality), (Designated only for: US)
  HUSSEY John, Suite 900, 1809 Barrington Street, Halifax, Nova Scotia B3J
    3K8, CA, CA (Residence), CA (Nationality), (Designated only for: US)
  KLAAMAS Mark, Suite 900, 1809 Barrington Street, Halifax, Nova Scotia B3J
    3K8, CA, CA (Residence), CA (Nationality), (Designated only for: US)
  BECHARD Kevin, Suite 900, 1809 Barrington Street, Halifax, Nova Scotia
    B3J 3K8, CA, CA (Residence), CA (Nationality), (Designated only for:
    US)
  BISHOFF Mark, Suite 900, 1809 Barrington Street, Halifax, Nova Scotia B3J
    3K8, CA, CA (Residence), CA (Nationality), (Designated only for: US)
Legal Representative:
  SHARPE Paul S (agent), Marks & Clerk, P.O. Box 957, Station B, Ottawa,
    Ontario K1P 5S7, CA,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200155882 A2-A3 20010802 (WO 0155882)
  Application: WO 2001CA84 20010124 (PCT/WO CA0100084)
  Priority Application: US 2000177672 20000127
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ
  DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ
  LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG
  SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English

Filing Language: English
Fulltext Word Count: 5175
English Abstract

A method and apparatus for insuring authenticity for consumer goods as
well as products transferred to another party. In one embodiment, a
record of authenticity is provided with a good at the point of
manufacture. The record of authenticity includes an item code and a
registration number unique to the good. An internet database stores the
authenticity data. Once an article or good is purchased, the owner of the
article accesses the database and is forwarded a second registration
number which is different from the initial registration number provided
at the point of manufacture. The owner may register as a legitimate owner
of authentic goods by entering the new registration number and item code
as well as other information. This information is stored in the internet
database for the good in issue. The system also provides for insuring
that any good transferred in title to a second party is an authentic
article and also lists information for this party relative to the article.
Main International Patent Class: **G06F-017/00**
International Patent Class: **G06F-017/60**
Fulltext Availability:
  Detailed Description
  Claims
 Claim
... subsequent purchaser with said item code; accessing said database and
entering said item code; confidentially **forwarding** a **subsequent** registration
number different from said registration number; registering said subsequent
purchaser as a new owner of said...

  23/3,AB,K/23   (Item 15 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
00806392
**TECHNOLOGY   SHARING   DURING   ASSET   MANAGEMENT   AND   ASSET   TRACKING   IN   A
    NETWORK-BASED SUPPLY CHAIN ENVIRONMENT AND METHOD THEREOF**
**PARTAGE   TECHNOLOGIQUE   LORS DE LA GESTION ET DU SUIVI DU PARC INFORMATIQUE
    DANS   UN ENVIRONNEMENT DU TYPE CHAINE D'APPROVISIONNEMENT RESEAUTEE, ET
    PROCEDE ASSOCIE**
Patent Applicant/Assignee:
  ACCENTURE LLP, 1661 Page Mill Road, Palo Alto, CA 94304, US, US
    (Residence), US (Nationality)
Inventor(s):
  MIKURAK Michael G, 108 Englewood Blvd., Hamilton, NJ 08610, US,
Legal Representative:
  HICKMAN Paul L (agent), Oppenheimer Wolff & Donnelly, LLP, 38th Floor,
    2029 Century Park East, Los Angeles, CA 90067-3024, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200139086 A2 20010531 (WO 0139086)
  Application: WO 2000US32310 20001122 (PCT/WO US0032310)
  Priority Application: US 99444653 19991122; US 99447623 19991122
Designated States: AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE
  DK DM DZ EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR
  LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL
  TJ TM TR TT TZ UA UG UZ VN YU ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 156214
Main International Patent Class: **G06F-017/60**
Fulltext Availability: Detailed Description
Detailed Description
... number with the same Timepoint 1 (second) value. The first telephone
   call will have a **sequence   number   set** to 'O.' This value increases
   incrementally for each successive call which originates on the same...1
   0, bits 0-7 byte 1 1, bits 0-7 byte 12, bits 0- **2** NCID **Sequence Number**
   byte 12, bits 3-7 Not Used
   Table 44A
   After transporting the call 3602 and bits 0- **2** NCID **Sequence Number**
   96 byte 12, bits 3 -7 Not Used
   Table 44B
   After transporting the call 3602...

  23/3,AB,K/24   (Item 16 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00806389
**SCHEDULING   AND PLANNING BEFORE AND PROACTIVE MANAGEMENT DURING MAINTENANCE
    AND SERVICE IN A NETWORK-BASED SUPPLY CHAIN ENVIRONMENT**
**PROGRAMMATION   ET PLANIFICATION ANTICIPEE, ET GESTION PROACTIVE AU COURS DE
    LA   MAINTENANCE   ET   DE   L'ENTRETIEN   D'UN ENVIRONNEMENT DU TYPE CHAINE
    D'APPROVISIONNEMENT RESEAUTEE**
Patent Applicant/Assignee:
  ACCENTURE LLP, 1661 Page Mill Road, Palo Alto, CA 94304, US, US
    (Residence), US (Nationality)
Inventor(s):
  MIKURAK Michael G, 108 Englewood Boulevard, Hamilton, NJ 08610, US,
Legal Representative:
  HICKMAN Paul L (agent), Oppenheimer Wolff & Donnelly, LLP, 38th Floor,
   2029 Century Park East, Los Angeles, CA 90067-3024, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200139082 A2 20010531 (WO 0139082)
  Application: WO 2000US32228 20001122 (PCT/WO US0032228)
  Priority Application: US 99447625 19991122; US 99444889 19991122
Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES
  FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD
  MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ
  VN YU ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 152479
 French Abstract
  L'invention concerne un systeme, un procede, et un article manufacture de
   gestion proactive mis en oeuvre au cours de la maintenance et de
   l'entretien d'un environnement du type chaine d'approvisionnement
   reseautee. Les appels telephoniques, les donnees et autres informations
   multimedia sont routes via un reseau assurant le transfert des

informations via Internet au moyen d'informations de routage telephonique
et d'informations d'adresse de protocole Internet. Ledit reseau comprend
un gestionnaire de seuil proactif qui avertit a l'avance les fournisseurs
d'une rupture de contrat imminente. Ledit gestionnaire de seuil proactif
envoie une alarme au fournisseur de services lorsque le niveau de service
du moment n'atteint plus le niveau de service determine dans le contrat
en termes de maintien d'un certain niveau de service.
Main International Patent Class: **G06F-017/16**
Fulltext Availability: Detailed Description
Detailed Description
  Table 44A
  After transporting the call 3602...
  ...1 0, bits 0-7 byte 1 1, bits 0-7 byte 12, bits 0- **2** NCID **Sequence**
Number byte 12, bits 3-7 Not Used...

  23/3,AB,K/26   (Item 18 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00806383
**COLLABORATIVE CAPACITY PLANNING AND REVERSE INVENTORY MANAGEMENT DURING
    DEMAND AND SUPPLY PLANNING IN A NETWORK-BASED SUPPLY CHAIN ENVIRONMENT
    AND METHOD THEREOF**
**PLANIFICATION EN COLLABORATION DES CAPACITES ET GESTION ANTICIPEE DES
    STOCKS LORS DE LA PLANIFICATION DE L'OFFRE ET DE LA DEMANDE DANS UN
    ENVIRONNEMENT DE CHAINE D'APPROVISIONNEMENT FONDEE SUR LE RESEAU ET
    PROCEDE ASSOCIE**
Patent Applicant/Assignee:
  ACCENTURE LLP, 1661 Page Mill Road, Palo Alto, CA 94304, US, US
    (Residence), US (Nationality)
Inventor(s):
  MIKURAK Michael G, 108 Englewood Blvd., Hamilton, NJ 08610, US,
Legal Representative:
  HICKMAN Paul L (agent), Oppenheimer Wolff & Donnelly, LLP, 1400 Page Mill
    Road, Palo Alto, CA 94304, US,
Patent and Priority Information (Country, Number, Date):
  Patent:.   WO 200139029 A2 20010531 (WO 0139029)
  Application: WO 2000US32309 20001122 (PCT/WO US0032309)
  Priority Application: US 99444655 19991122; US 99444886 19991122
Designated States: AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE
  DK DM DZ EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR
  LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL
  TJ TM TR TT TZ UA UG UZ VN YU ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 157840
Main International Patent Class: **G06F-017/60**
Fulltext Availability: Detailed Description
Detailed Description
... when an NCID must be created. In step 4202, the current switch will
  calculate a **sequence number** . The **sequence number** represents the
  number of calls which have occurred on the same port number with the
  same Timepoint I...byte 10, bits 0-7

```
     byte I 1, bits 0-7
     byte 12, bits 0- 2  NCID  Sequence    Number
     byte 12, bits 3-7 Not Used
     Table 44A
     After transporting the call 3602 and...
...1 0, bits 0-7
     byte I 1, bits 0-7
     byte 12, bits 0- 2  NOD  Sequence    Number
     byte 12, bits 3-7 Not Used
     Table 44B
     After transporting the call 3602 and...
```

23/3,AB,K/27   **(Item 19 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.
00510338
METHODS AND APPARATUS FOR INTERNET BASED FINANCIAL TRANSACTIONS WITH EVIDENCE OF PAYMENT
PROCEDE ET DISPOSITIF POUR TRANSACTIONS FINANCIERES INTERNET AVEC TRACE DE PAIEMENT
Patent Applicant/Assignee:
  SARANAC SOFTWARE INC,
Inventor(s):
  LEWIS Richard,
  DWYER Tara,
  ABDELSADEK Mohammed,
  HAN Donald,
  ROGOFF Jonathon,
  PARKS Louis,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 9941690 A1 19990819
  Application: WO 99US3099 19990212   (PCT/WO US9903099)
  Priority Application: US 9823724 19980213
Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES
  FI GB GD GE GH GM HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV
  MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG
  UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE
  CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN
  GW ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 22355

English Abstract

   A system and method for conducting Internet-based financial transaction
  between a client (2n) and a server (4). The client has a processor, a
  printer, a client authentication module, a module for issuing a
  transaction request, and a unique digital signature. The server has a
  network including a transaction server (180), a transaction database
  (170), a server authentication module, and a receipt generation module.
  An Internet connection (30) is used between the client (2n) and the
  server network (4). The transaction execution system includes
  authentication, wherein the client authentication module and the server
  authentication modules communicate via the Internet connection (30) and
  are authenticated to each other. A transaction module is included
  wherein, in response to the client and server being authenticated, the
  client (2n) issues a transaction request to the server (4) and the
  transaction server (180), in response to a client transaction request,
```

executes an electronic payment transaction at the server and records the
transaction in the transaction database (170). The server receipt
generation module, in response to an executed electronic payment, then
generates a receipt and transmits the receipt to the client (2n).
Main International Patent Class: **G06F-017/60**
Fulltext Availability:  Detailed Description
Detailed Description
... standard for digital certificates, and it defines 1 5 the following
fields.
1. Version: For **forward** and backward compatibility.
 **2 . Serial Number** : An integer that, together with the CA's name
uniquely identifies this certificate.
3. Signature...


 **25/6/3**       **(Item 3 from file: 348)**
01497116
**One-way roaming from ANS-41 to GSM systems**


 **25/6/12**       **(Item 12 from file: 348)**
00290349
**Facsimile device.**


 **25/6/20**       **(Item 5 from file: 349)**
00889685    **Image available**
**VIDEO SIGNAL WITH INTEGRAL DATA TRANSMISSION**


 **25/6/28**       **(Item 13 from file: 349)**
00739497    **Image available**
**METHOD AND APPARATUS FOR EARLY RANDOM DISCARD OF PACKETS**


 **25/6/32**       **(Item 17 from file: 349)**
00548454    **Image available**
**DIGITAL TRADING CARD, SYSTEM, AND METHOD**


 **25/6/33**       **(Item 18 from file: 349)**
00474445    **Image available**
**COMMUNICATION SYSTEM AND METHOD WITH ORTHOGONAL BLOCK ENCODING**


 **25/6/34**       **(Item 19 from file: 349)**
00465694    **Image available**
**METHOD AND APPARATUS FOR ICONIFYING AND AUTOMATICALLY DIALING TELEPHONE
    NUMBERS WHICH APPEAR ON A WEB PAGE**


 **25/6/35**       **(Item 20 from file: 349)**
00459165    **Image available**
**UNIVERSAL EPISTEMOLOGICAL MACHINE (A.K.A. ANDROID)**


 **25/6/36**       **(Item 21 from file: 349)**
00433569
**METHODS AND APPARATUS FOR A GENERAL PURPOSE REASONING PLATFORM**


 **25/6/38**       **(Item 23 from file: 349)**
00315156
**SCALABLE MULTIMEDIA NETWORK**


 **25/3,AB,K/1**      **(Item 1 from file: 348)**

DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
01640704
**Forming RTP packets**
**Bildung von RTP Paketen**
**Formant des paquets RTP**
PATENT ASSIGNEE:
  SAMSUNG ELECTRONICS CO., LTD., (1093728), 416, Maetan-dong, Paldal-gu,
    Suwon-City, Kyungki-do, (KR), (Applicant designated States: all)
INVENTOR:
  Kang, Sang-ug, 106-901 Indukwon Samsung Apartment, Gwanyang-2-dong,
    Dongan-gu, Anyang-city, Gyunggi-do, (KR)
  Lobo, Austin, c/o 202-804 Sungil Apartment, Maetan-3-dong, Paldal-gu,
    Suwon-city, Gyunggi-do, (KR)
LEGAL REPRESENTATIVE:
  Geary, Stuart Lloyd et al (79361), Venner, Shipley & Co., 20 Little
    Britain, London EC1A 7DH, (GB)
PATENT (CC, No, Kind, Date):  EP 1351472  A2  031008 (Basic)
APPLICATION (CC, No, Date):   EP 2003251930 030327;
PRIORITY (CC, No, Date): KR 202017833 020401
DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
  HU; IE; IT; LI; LU; MC; NL; PT; RO; SE; SI; SK; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO
INTERNATIONAL PATENT CLASS: H04L-029/06
ABSTRACT EP 1351472 A2

    An apparatus and method to generate and restore an RTP (Real-Time
Transmission Protocol) packet. A setting unit assigns a CTS (Composition
TimeStamp), a DTS (Decoding TimeStamp), and a PSN (Packet Sequence
Number) that sequentially increase according to a packet generation order
for each of a plurality of SL (Synchronization Layer) packets, extracting
a time stamp length and a packet sequence number length from an SLCD (SL
Configuration Descriptor) within each SL packet. A packet generating unit
generates a header of the SL packet accommodated in an RTP packet header
and the RTP packet based on the CTS, the DTS, the PSN, the time stamp
length and the packet sequence number length.
    Since only difference values in the CTS, the DTS, and the PSN
information between a previous SL packet and the present SL packet, are
recorded, a number of bits can be reduced if the CTS value rolls over and
a multiple SL packet can be made for the SL packet having a time stamp
length greater than 32 bits. Also, a condition that a DTS delta value
should always be a positive number is met.
ABSTRACT WORD COUNT: 187
NOTE:  Figure number on first page: NONE
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

| Available Text | Language | Update | Word Count |
|---|---|---|---|
| CLAIMS A | (English) | 200341 | 1440 |
| SPEC A | (English) | 200341 | 5262 |
| Total word count - document A | | | 6702 |
| Total word count - document B | | | 0 |
| Total word count - documents A + B | | | 6702 |

...CLAIMS and the DTS based on a set time stamp length; and a second changing
unit **changing** the PSN based on a **set** packet **sequence number** length.
    10. A method of restoring an RTP (Real-Time Transmission Protocol) packet
comprising  extracting...

**25/3,AB,K/2       (Item 2 from file: 348)**
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
01578349
**Robust RLC reset procedure in a wireless communication system**
**Robustes RLC-Rucksetzungsverfahren in einem drahtlosen Kommunikationsystem**
**Methode  robuste  de  reinitialisation RLC pour un systeme de communication**
     **sans fils**
PATENT ASSIGNEE:
  ASUSTeK Computer Inc., (4118980), 4F, No. 150, Li-Te Rd., Peitou, Taipei
     City, (TW), (Applicant designated States: all)
INVENTOR:
  Kuo, Richard Lee-Chee, 4FI., No. 21, Lane 281, Jungyang Rd., Hsinchu, 300
     , (TW)
LEGAL REPRESENTATIVE:
  TER MEER STEINMEISTER & PARTNER GbR (100061), Patentanwalte,
     Mauerkircherstrasse 45, 81679 Munchen, (DE)
PATENT (CC, No, Kind, Date):   EP 1311081  A2   030514 (Basic)
APPLICATION (CC, No, Date):   EP 2002024661 021105;
PRIORITY (CC, No, Date): US 338148 P 011113
DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
     IE; IT; LI; LU; MC; NL; PT; SE; SK; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04L-001/18
ABSTRACT EP 1311081 A2
     In the AM RLC reset procedure of a wireless communication system, a
  delayed Reset ACK PDU will cause un-synchronization between the Sender
  and the Receiver. This invention of method and system checks for arriving
  of the first and the second Reset PDUs and the first and the second Reset
  ACK PDUs first, then selectively updates the status-related variables and
  HFN values to synchronize the Sender and the Receiver.
ABSTRACT WORD COUNT: 69
NOTE:  Figure number on first page: 6A
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text   Language   Update    Word Count
     CLAIMS A   (English)   200320    1204
     SPEC A     (English)   200320    2249
Total word count - document A         3453
Total word count - document B            0
Total word count - documents A + B    3453
...CLAIMS a corresponding Reset ACK package with the same reset sequence
number and the Receiver's **updated** second data package **sequential number.**
     2 . A system as claimed in claim 1, where the Sender is an UE and the...


**25/3,AB,K/4       (Item 4 from file: 348)**
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
01026196
**COMMUNICATION SYSTEM AND METHOD WITH ORTHOGONAL BLOCK ENCODING**
**KOMMUNIKATIONSSYSTEM UND VERFAHREN MIT ORTHOGONALEN BLOCKKODIERUNG**
**SYSTEME ET PROCEDE DE COMMUNICATION PAR CODAGE A BLOC ORTHOGONAL**
PATENT ASSIGNEE:
  ERICSSON INC., (1203497), One Triangle Park, P.O. Box 13969, Research
     Triangle Park, NC 27709, (US), (Proprietor designated states: all)
INVENTOR:

DENT, Paul, Wilkinson, 637 Eagle Point Road, Pittsboro, NC 27312, (US)
LEGAL REPRESENTATIVE:
  HOFFMANN - EITLE (101511), Patent- und Rechtsanwalte Arabellastrasse 4,
    81925 Munchen, (DE)
PATENT (CC, No, Kind, Date):  EP 998794  A2  000510 (Basic)
                              EP 998794  B1  030402
                              WO 99005797  990204
APPLICATION (CC, No, Date):   EP 98934458 980715;  WO 98US14432  980715
PRIORITY (CC, No, Date): US 898392 970722
DESIGNATED STATES: DE; FI; FR; GB; IT
INTERNATIONAL PATENT CLASS: H04B-001/707; H04L-001/08
NOTE:  No A-document published by EPO
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text  Language   Update    Word Count
      CLAIMS B  (English)  200314    2352
      CLAIMS B  (German)   200314    2025
      CLAIMS B  (French)   200314    2520
      SPEC B    (English)  200314    6474
Total word count - document A        0
Total word count - document B        13371
Total word count - documents A + B   13371
...CLAIMS bits in each group in accordance with an orthogonal coding
sequence;
    interleaving (18) the sign  **changed**  bits from the preselected  **number**
of **groups** to **successively** generate a **number** of repeated **groups** each having a
collective sign **change** corresponding to a common sign change shared by all
sign-changed bits of the information...with an orthogonal code associated
with the transmitter;
    an interleaver (18) for interleaving the sign **changed** bits from the
preselected **number** of **groups** to **successively** generate a **number** of blocks each
composed of the different sign changed bits of the preselected number of...

 **25/3,AB,K/5      (Item 5 from file: 348)**
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
00904108
**Error compensating method and apparatus and medium storing an error
    compensation program**
**Verfahren    und    Vorrichtung    zur    Fehlerkompensation    sowie    das
    Fehlerkompensationsprogramm speicherndes Speichermedium**
**Procede  et dispositif de compensation des erreurs, et moyen de stockage de
    programme de compensation des erreurs**
PATENT ASSIGNEE:
  NIPPON TELEGRAPH AND TELEPHONE CORPORATION, (686333), 19-2,
    Nishi-Shinjuku 3-chome, Shinjuku-ku, Tokyo 160, (JP), (Applicant
    designated States: all)
INVENTOR:
  Yoshioka, Masafumi, 107, 3-14, Hinode-cho, Yokosuka-shi, Kanagawa-ken,
    (JP)
  Ohta, Atsushi, B-304, 9-2-12, Sugita, Isogo-ku, Yokohama-shi,
    Kanagawa-ken, (JP)
  Umehira, Masahiro, F-403, Fureainomachi, Nokendai, Kanazawa-ku,
    Yokohama-shi, Kanagawa-ken, (JP)
LEGAL REPRESENTATIVE:
  Poulin, Gerard et al (17984), BREVALEX 3, rue du docteur Lancereaux,

         75008 Paris, (FR)
PATENT (CC, No, Kind, Date):   EP 825738   A2   980225  (Basic)
                               EP 825738   A3   010207
APPLICATION (CC, No, Date):   EP 97401965 970821;
PRIORITY (CC, No, Date): JP 96222480 960823
DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS: H04L-001/18
ABSTRACT EP 825738 A2

     An object of the present invention is to improve the transmission
efficiency and reduce circuit size in error compensating techniques where
bit errors occurring during transmission are compensated for by
retransmission.
     Transmission equipment get sequence number(s) from control information
and sequence numbers which follows from the sequence number which
correspond to newest data packet amongst the sequence numbers, and
transmits data packet corresponding to these sequence numbers at a
predetermined timing. On the other hand, reception equipment receives
data packet from the transmission equipment, and manages the sequence
numbers of not yet received data packets. The reception equipment then
sends back sequence number(s) of predetermined number. which is smaller
number than the maximum number of data packets which is sent from
transmission equipment at a predetermined timing. which correspond to not
yet received data packet as control information for each predetermined
timing.
ABSTRACT WORD COUNT: 143
NOTE:  Figure number on first page: 1
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

| Available Text | Language | Update | Word Count |
|---|---|---|---|
| CLAIMS A | (English) | 9809 | 4013 |
| SPEC A | (English) | 9809 | 8842 |
| Total word count - document A | | 12855 | |
| Total word count - document B | | 0 | |
| Total word count - documents A + B | | 12855 | |

...CLAIMS for assigning said sequence numbers which is accommodated in the
     received control information and a **series** of **sequence    numbers
     following** from the **sequence   number** corresponding to the newest
     data packet amongst said sequence numbers,
   a transmission control circuit (103A...
...for assigning said sequence numbers which is accommodated in the
     received control information and a **series** of **sequence  numbers
     following** from the **sequence   number** corresponding to the newest
     data packet amongst said sequence numbers,
   a transmission control circuit (103A...


  **25/3,AB,K/7       (Item 7 from file: 348)**
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
00674921
**Method and device for processing banknotes sheets up into bundles**
**Verfahren    und    Vorrichtung    zum    Verarbeiten   von   Wertscheinbogen   zu
     Wertscheinbundeln**
**Procede   et  dispositif  pour  travailler des feuilles de billets de banque
     jusqu'a la preparation de paquets de billets**
PATENT ASSIGNEE:
  DE LA RUE GIORI S.A., (294210), 4, rue de la Paix, 1003 Lausanne, (CH),

(applicant designated states: AT;CH;DE;FR;GB;IT;LI;SE)
INVENTOR:
  Wyssmann, Hans, Gehrenholz H12, CH-8055 Zurich, (CH)
LEGAL REPRESENTATIVE:
  Jorchel, Dietrich R.A. et al (25691), c/o BUGNION S.A. Conseils en
     Propriete Industrielle 10, route de Florissant Case postale 375,. 1211
     Geneve 12 Champel, (CH)
PATENT (CC, No, Kind, Date):   EP 646459  A1  950405 (Basic)
                               EP 646459  B1  971029
APPLICATION (CC, No, Date):    EP 94810490 940829;
PRIORITY (CC, No, Date): CH 932941 930930
DESIGNATED STATES: AT; CH; DE; FR; GB; IT; LI; SE
INTERNATIONAL PATENT CLASS: B41F-033/00; B41K-003/12;
ABSTRACT EP 646459 A1 (Translated)

     A series of H banknote sheets, for example 100 sheets, is first checked
  for misprints and the banknote positions of each sheet which have
  misprints are stored in a computer. The sheets of this series then pass a
  numbering machine (4) having freely programmable numbering units which
  are controlled by the computer. Numbering takes place in such a way that
  all the perfect banknote prints within the sheet series, excluding the
  misprints, acquire a continuous number sequence, the number sequence of H
  banknotes in one and the same banknote position being a continuation of
  the number sequence of the H banknotes in an adjacent banknote position.
  The next series of H sheets acquires the consecutive number sequence.
  After numbering, sheet stacks (FH), each with H sheets, are formed, these
  stacks are cut into banknote stacks (W), and these banknote stacks,
  ordered according to consecutive numbering, are fed to a separating-out
  and bundling device (9), in which the misprints are removed and, in each
  case, H successive perfect banknotes are combined to form a bundle (WB)
  having a complete number sequnce.. Ten bundles in each case are packaged
  into a banknote package (P).
TRANSLATED ABSTRACT WORD COUNT:       195
 LANGUAGE (Publication,Procedural,Application): German; German; German
FULLTEXT AVAILABILITY:
Available Text   Language    Update    Word Count
     CLAIMS B    (English)   9710W4     1340
     CLAIMS B    (German)    9710W4     1045
     CLAIMS B    (French)    9710W4.    1425
     SPEC B      (German)    9710W4     3330
Total word count - document A            0
Total word count - document B         7140
Total word count - documents A + B    7140
...CLAIMS notes are combined to form a bundle (WB) having a complete
     sequence of numbers, bundles **following**  one another having notes
     with **successive   sequences**  of **numbers** .
   **2** . The process as claimed in claim 1, characterised in that the
     numbering machine (4) used...

 **25/3,AB,K/9      (Item 9 from file: 348)**
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
00635392
*Data back-up in data processing system*
*Datensicherung in einer Datenverarbeitungsanlage*
*Sauvegarde des donnees dans un systeme de traitement des donnees*
PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road,
    Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)
INVENTOR:
  Shomler, Robert Wesley, 17015 Piedmont Court, Morgan Hill, California
    95037, (US)
  McIlvain, James E., 1118 Silver Oak Court, California 95120, (US)
LEGAL REPRESENTATIVE:
  Litherland, David Peter (75471), IBM United Kingdom Limited Intellectual
    Property Department Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
PATENT (CC, No, Kind, Date):   EP 617362  A1   940928 (Basic)
                               EP 617362  B1   980603
APPLICATION (CC, No, Date):    EP 94104195 940317;
PRIORITY (CC, No, Date): US 36017 930323
DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS: G06F-011/20; G06F-011/14;
ABSTRACT EP 617362 A1
    A method and means for asynchronous remote data duplexing at a distant
    location from copies based at a primary site storage subsystem, which
    copying is non-disruptive to executing applications, and further in which
    any data loss occasioned by losses in flight or updates never received at
    the time of any interruption between the primary and remote sites are
    accounted for at the remote site. The method assigns a token and unique
    **sequence number** responsive to each write operation at the primary site,
    and sends the tokens + numbers and data updates to the remote site. The
    method relies upon the **sequence number** to establish a sequence and define
    gaps therein to ascertain missing updates. (see image in original document)
ABSTRACT WORD COUNT: 121
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text   Language    Update     Word Count
      CLAIMS B   (English)   9823          529
      CLAIMS B   (German)    9823          554
      CLAIMS B   (French)    9823          664
      SPEC B     (English)   9823         5009
Total word count - document A              0
Total word count - document B           6756
Total word count - documents A + B      6756

  **25/3,AB,K/10        (Item 10 from file: 348)**
DIALOG(R)File 348:EUROPEAN PATENTS
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00361667
**Contiguous floor channeling elevator dispatching.**
**Aufzugsverteilung durch Sektoren von benachbarten Stockwerken.**
**Repartition d'ascenceurs par secteurs de paliers contigus.**
PATENT ASSIGNEE:
  OTIS ELEVATOR COMPANY, (311771), 10 Farm Springs, Farmington, CT 06032,
    (US), (applicant designated states: CH;DE;ES;FR;GB;IT;LI)
INVENTOR:
  Thangavelu, Kandasamy, 70 Deepwood Drive, Avon Connecticut, (US)
  Bittar, Joseph, 31 Longview Road, Avon Connecticut, (US)
LEGAL REPRESENTATIVE:
  Tomlinson, Kerry John et al (36771), Frank B. Dehn & Co. European Patent
    Attorneys Imperial House 15-19 Kingsway, London WC2B 6UZ, (GB)
PATENT (CC, No, Kind, Date):   EP 328423  A1   890816 (Basic)
                               EP 328423  B1   931215

APPLICATION (CC, No, Date):    EP 89301358 890213;
PRIORITY (CC, No, Date): US 157542 880212; US 157543 880212
DESIGNATED STATES: CH; DE; ES; FR; GB; IT; LI
INTERNATIONAL PATENT CLASS: B66B-001/20;
ABSTRACT EP 328423 A1

An elevator system contains a group of elevator cars (2). A group
controller (32) contains signal processing means for controlling the
dispatching of the cars from a main floor. During up-peak conditions,
each car is dispatched from the main floor to a "sector" of contiguous
floors. Sectors are contiguous. Floors that constitute a sector are
assigned exclusively to a car and are displayed on an indicator (SI) at
the lobby. Sectors are selected for assignment according a preset order.
Cars are selected for assignment to a selected sector according to a
preset order. If no car calls are made to the floors in the assigned
sector, the next sector is selected along with the next car. When an up
hall call is made during the up peak period, the car that is most able to
serve the call is selected from those cars assigned to a sector in the
upper 2/3 of the building. Cars serving floors in the lower 1/3 of the
building are never assigned to up hall calls during the up peak period.
ABSTRACT WORD COUNT: 180
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

| Available Text | Language | Update | Word Count |
|---|---|---|---|
| CLAIMS B | (English) | EPBBF1 | 1331 |
| CLAIMS B | (German) | EPBBF1 | 1328 |
| CLAIMS B | (French) | EPBBF1 | 1571 |
| SPEC B | (English) | EPBBF1 | 4204 |

Total word count - document A          0
Total word count - document B       8434
Total word count - documents A + B   8434
...CLAIMS the sector after the sector is assigned to the car.
   3.  An elevator system according **to** claim **1** or **2** , characterised **in**
       that said **sequence** comprises assigning each car (1,2,3,4)and
       sector (SN) a number and following...


 **25/3,AB,K/11**        **(Item 11 from file: 348)**
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
00335610
**Method and apparatus for performing optical time domain reflectometry.**
**Verfahren         und         Vorrichtung        zum        Anwenden        von        optischen**
     **Zeitbereichsreflektometern.**
**Procede   et dispositif d'utilisation de reflectometrie optique a domaine de**
     **temps.**
PATENT ASSIGNEE:
   Hewlett-Packard GmbH, (292551), Herrenberger Strasse 130 Postfach 14 30,
     W-7030 Boblingen, (DE), (applicant designated states: DE;FR;GB)
INVENTOR:
   Beller, Josef, Peter-Cornelius-Strasse 2, W-7410 Reutlingen, (DE)
LEGAL REPRESENTATIVE:
   Harbach, Thomas (60391), Hewlett-Packard GmbH, Europ. Patent- und
     Lizenzabteilung, Postfach 14 30, W-7030 Boblingen, (DE)
PATENT (CC, No, Kind, Date):   EP 379609  A1  900801 (Basic)
                               EP 379609  B1  930728
APPLICATION (CC, No, Date):   EP 89101168 890124;
PRIORITY (CC, No, Date): EP 89101168 890124.

DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS: G01M-011/00;
ABSTRACT EP 379609 A1

In a method and a corresponding apparatus for performing optical time
domain reflectometry predetermined time sequences of light signals
(A(min), B(min)) are injected into an optical fiber and the signals
backscattered from the fiber are correlated with the injected sequences.
The injected time sequences are selected according to a specific code
such that after each element in the code represented by "1" or "-1" a
predetermined number of elements represented by "0" is provided.
Depending on the number of inserted "0"s after each "1" or "-1" sidelobes
in the correlation product appear at certain predictable positions. By
choosing the numbers of inserted "0"s differently for different
injections, the resulting sidelobes appear at different positions in the
corresponding correlation products. From the correlation products of such
different injections, a composite fiber response can be derived wherein
sidelobes are substantially eliminated. The codes used can be derived,
for example, from Golay complementary codes.
ABSTRACT WORD COUNT: 155
LANGUAGE (Publication,Procedural,Application).: English; English; English
FULLTEXT AVAILABILITY:

| Available Text | Language | Update | Word Count |
| --- | --- | --- | --- |
| CLAIMS B | (English) | EPBBF1 | 1002 |
| CLAIMS B | (German) | EPBBF1 | 869 |
| CLAIMS B | (French) | EPBBF1 | 1139 |
| SPEC B | (English) | EPBBF1 | 4477 |

Total word count - document A          0
Total word count - document B          7487
Total word count - documents A + B     7487
...CLAIMS each light signal of the common basic time sequence (A,B),
wherein the second predetermined **number** differs **from** the first predetermined
**number**.

2 . A **method** according to claim 1, characterized in that the common
basic sequence is a set of...
...magnitudes of sidelobes relative to the magnitudes of peaks originating
from reflections in the fiber.

4 . A **method** according to **claim** 2 or 3, characterized by the
**following** additional steps:
     - determining the positions of peaks originating from reflections in
the fiber (10),
     - calculating...
...adjacent sample values.

5. A method according to claim 2 or 3, characterized by the **following**
steps :
     - **successively** injecting a **number** **of** modified complementary
     sequences into the fiber (10) with the numbers (X(sub 1) -1 ; X...


 **25/3,AB,K/13**       **(Item 13 from file: 348)**
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
00273784
**Digital code conversion apparatus.**
**Gerat zur digitalen Kodeumwandlung.**
**Appareil pour la conversion de code numerique.**
PATENT ASSIGNEE:
  SONY CORPORATION, (214021), 7-35 Kitashinagawa 6-chome Shinagawa-ku,

Tokyo 141, (JP), (applicant designated states: AT;DE;FR;GB;SE)
INVENTOR:
  Isozaki, Masaaki, c/o Sony Corporation 7-35 Kitashinagawa 6-chome,
    Shinagawa-ku Tokyo, (JP)
  Takano, Kazuhiro, c/o Sony Corporation 7-35 Kitashinagawa 6-chome,
    Shinagawa-ku Tokyo, (JP).
LEGAL REPRESENTATIVE:
  Ayers, Martyn Lewis Stanley et al (42851), J.A. KEMP & CO. 14 South
    Square Gray's Inn, London WC1R 5LX, (GB)
PATENT (CC, No, Kind, Date):   EP 273687  A1  880706 (Basic)
                               EP 273687  B1  940323
APPLICATION (CC, No, Date):   EP 87311306 871222;
PRIORITY (CC, No, Date): JP 86311604 861227; JP 8733897 870217
DESIGNATED STATES: AT; DE; FR; GB; SE
INTERNATIONAL PATENT CLASS: G11B-020/10; H03M-005/14;
ABSTRACT EP 273687 A1
    A digital code modulation circuit converts input data formed of
    **sequentially** received **serial data** into parallel data such that each
    parallel data has input data for reference in both preceding and
    following parallel data, and thereupon applies a code conversion to the
    parallel data and thereby executes modulation of the input data in
    parallel. Conversely, a digital code demodulation circuit applies a code
    conversion to input data formed of **serial data sequentially** input thereto
    to form parallel data such that each parallel data has input data for
    reference in both the preceding and following parallel data and thereby
    executes demodulation of the input data in parallel.
ABSTRACT WORD COUNT: 110
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text    Language    Update      Word Count
      CLAIMS B   (English)   EPBBF1         662
      CLAIMS B   (German)    EPBBF1         628
      CLAIMS B   (French)    EPBBF1         793
      SPEC B     (English)   EPBBF1       10823
Total word count - document A            0
Total word count - document B        12906
Total word count - documents A + B   12906
...CLAIMS sub(n))1 to M( sub(n+1))2).
  3.  A digital code conversion apparatus **according** to claim 1 or  **2**
      **wherein** the **serial** -to-parallel converter means (2) receives as
      input data NRZ data.
  4.  A digital code...


   **25/3,AB/14        (Item 14 from file: 348)**
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
00270804
**Coding system for reducing redundancy.**
**Kodierungssystem zur Reduktion der Redundanz.**
**Systeme de codage reduisant la redondance.**
PATENT ASSIGNEE:
  COMPRESSION LABS, INC., (522700), 2305 Bering Drive, San Jose California
    95131, (US), (applicant designated states: DE;FR;GB;IT)
INVENTOR:
  Chen, Wen-hsiung, 668 Inverness Way, Sunnyvale California 94087, (US)
  Klenke, Daniel J., 492 Curtner Drive, Milpitas California 95035, (US)

LEGAL REPRESENTATIVE:
   Crawford, Andrew Birkby et al (29761), A.A. THORNTON & CO. Northumberland
      House 303-306 High Holborn, London WC1V 7LE, (GB)
PATENT (CC, No, Kind, Date):   EP 266049  A2   880504 (Basic)
                               EP 266049  A3   891115
                               EP 266049  B1   940309
APPLICATION (CC, No, Date):   EP 87308272 870918;
PRIORITY (CC, No, Date): US 923630 861027
DESIGNATED STATES: DE; FR; GB; IT
INTERNATIONAL PATENT CLASS: H03M-007/46; H04N-007/137;
ABSTRACT EP 266049 A2
   A signal processor and method for efficiently processing signals using
   ordered redundancy (or) coding in different modes. Signals to e coded are
   multivalued digital numbers, in which the probable frequency of
   occurrence of some values is different than for other values. The system
   codes the highest most frequently occurring values (0's in the usual
   example) using runlength coding. The runlength encoding is of two types.
   The first type is utilized when a runlength of consecutive zeros (0's) is
   followed by the next most frequently occurring value and the other type
   is utilized when the runlength of consecutive zeros (0's) is followed by
   some other value.
ABSTRACT WORD COUNT: 109
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text    Language    Update     Word Count
      CLAIMS B    (English)   EPBBF1       1980
      CLAIMS B    (German)    EPBBF1       1832
      CLAIMS B    (French)    EPBBF1       2543
      SPEC B      (English)   EPBBF1      10143
Total word count - document A               0
Total word count - document B           16498
Total word count - documents A + B      16498

  **25/3,AB,K/15        (Item 15 from file: 348)**
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.
00218983
*Method for multiprocessor communications.*
*Kommunikationsverfahren fur Multiprozessor.*
*Methode de communication pour multiprocesseur.*
PATENT ASSIGNEE:
   TANDEM COMPUTERS INCORPORATED, (524030), 19333 Vallco Parkway, Cupertino
      California 95014-2599, (US), (applicant designated states:
      AT;BE;CH;DE;FR;GB;IT;LI;LU;NL;SE)
INVENTOR:
   Carr, Richard W., 3462 Murdoch Court, Palo Alto California 94306, (US)
LEGAL REPRESENTATIVE:
   Milhench, Howard Leslie et al (33863), R.G.C. Jenkins & Co. 26 Caxton
      Street, London SW1H 0RJ, (GB)
PATENT (CC, No, Kind, Date):   EP 204449  A2   861210 (Basic)
                               EP 204449  A3   890118
                               EP 204449  B1   920610
APPLICATION (CC, No, Date):   EP 86303684 860514;
PRIORITY (CC, No, Date): US 741659 850605
DESIGNATED STATES: AT; BE; CH; DE; FR; GB; IT; LI; LU; NL; SE
INTERNATIONAL PATENT CLASS: G06F-015/16; G06F-011/00;

ABSTRACT EP 204449 A2
    An improved method for communicating updated information among
processors in a distributed data processing system is disclosed. The
system includes a plurality of distributed interconnected processors each
having a memory. The method includes the steps of prioritizing the
processors into a predetermined order, establishing one of the processors
as a control processor for the broadcast of update messages, developing
an update message in at least one of the processors, selecting in
accordance with the control processor one of the processors which has
developed an update message as a sender processor, broadcasting the
update message of the sender processor to each of the processors, and
causing the next processor in order to be selected as control processor
in the event that the former control processor fails in service. As one
preferred use, the method enables the system to transmit atomic global
update messages with a tolerance to multiple processor faults.
ABSTRACT WORD COUNT: 153
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text   Language    Update      Word Count
        CLAIMS B  (English)   EPBBF1      2738
        CLAIMS B  (German)    EPBBF1       849
        CLAIMS B  (French)    EPBBF1      1097
        SPEC B    (English)   EPBBF1      7734
Total word count - document A          0
Total word count - document B      12418
Total word count - documents A + B 12418
...CLAIMS The method for communicating updated information set forth in
        claim 3. wherein each processor compares **the    update    sequence
        number** for the **update** message received with the update sequence
        number previously recorded in the processor corresponding to the...

 **25/3,AB,K/17        (Item 2 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.
01019361
*APPLICATION   GATEWAY   SYSTEM,   AND   METHOD   FOR   MAINTAINING   SECURITY   IN   A*
     *PACKET-SWITCHED   INFORMATION   NETWORK*
*SYSTEME   DE   PASSERELLE   D'APPLICATIONS   ET   PROCEDE   PERMETTANT   D'ASSURER   LA*
     *SECURITE   DANS   UN   RESEAU   INFORMATIQUE   A   COMMUTATION   PAR   PAQUETS*
Patent Applicant/Assignee:
  SSH COMMUNICATIONS SECURITY CORPORATION, Fredrikinkatu 42, FIN-00100
     Helsinki, FI, FI (Residence), FI (Nationality), (For all designated
     states except: US)
Patent Applicant/Inventor:
  YLONEN Tatu, Taysikuu 10 C 88, FIN-02210 Espoo, FI, FI (Residence), FI
     (Nationality), (Designated only for: US)
  KIVINEN Tero, Lukupuronrinne 2 i 17, FIN-02200 Espoo, FI, FI (Residence),
     FI (Nationality), (Designated only for: US)
  LEVLIN Markus, Limingantie 73 as. 19, FIN-00560 Helsinki, FI, FI
     (Residence), FI (Nationality), (Designated only for: US)
  TARKKALA Lauri, Leppavaarankatu 17 C 19, FIN-02600 Espoo, FI, FI
     (Residence), FI (Nationality), (Designated only for: US)
Legal Representative:
  BERGGREN OY AB (agent), P. O. Box 16, Jaakonkatu 3 A, FIN-00101 Helsinki,
     FI,
Patent and Priority Information (Country, Number, Date):

      Patent:                  WO 200349400 A1 20030612 (WO 0349400)
      Application:             WO 2002FI1001 20021209  (PCT/WO FI0201001)
      Priority Application: US 200120299 20011207
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
   CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
   KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO
   RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
   (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SI SK
   TR
   (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
   (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
   (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 18372

English Abstract

   A method and apparatuses are disclosed for handling digital data packets
   at a logical  borderline that separates an untrusted packet-switched
   information network  from a protected domain. A packet processor part
   intercepts a packet that is in  transit between the untrusted
   packet-switched information network and the  protected domain. The packet
   is examined at the packet processor part in order  to determine, whether
   the packet contains digital data that pertains to a certain  protocol. If
   the packet is not found to contain such digital data, it is processed  at
   the packet processor part. If the packet is found to contain digital data
   that  pertains to said certain protocol, it gets redirected to an
   application gateway  part that processes the packet according to a set of
   processing rules based on  obedience to said certain protocol. The packet
   processor part is a kernel mode  process running in a computer device and
   the application gateway part is a user  mode process running in a
   computer device.

Fulltext Availability:  Claims
Claim

...  Protocol or RTP, which is discussed in the known IETF document RFC
   1889. It requires **two  consecutive** port **numbers** of which one is for
   data and the other is for control. Dynamic **changes**  can be utilized so
   that when an RTP application gateway part detects the arrival of...be
   redirected. It is not necessarily the application gateway part that
   reacts to achieve dynamic **changes** in redirecting. At least in cases
   where a certain protocol requires two or more port...
...these port numbers are easy to deduce from each other (like in the case
   of **two  consecutive** port **numbers** ), the packet processor part can
   achieve dynamic changing for itself. When the packet processor part...


 **25/3,AB,K/19**        (Item 4 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.
00925664
**SERVER FARM INFORMATION PROCESSING SYSTEM AND METHOD OF OPERATION**
**SYSTEME   DE TRAITEMENT DE L'INFORMATION PAR BATTERIE DE SERVEURS ET PROCEDE**
    **D'EXPLOITATION**
Patent Applicant/Assignee:
  REBA TECHNOLOGIES INC, 508 Newhall Cove, Austin, TY 78746, US, US
     (Residence), US (Nationality).
Inventor(s):
  BERG Mitchell T, 435 10th Avenue, Kirkland, WA 98033, US,

Legal Representative:
  DAVIS Michael A Jr (et al) (agent), Haynes & Boone, LLP, Suite 1600, 600
    Congress Avenue, Austin TX 78701-3236, US,
Patent and Priority Information (Country, Number, Date):
  Patent:                    WO 200259742 A1 20020801 (WO 0259742)
  Application:               WO 2001US49285 20011218  (PCT/WO US0149285)
  Priority Application: US 2000257456 20001221; US 2001872081 20010601; US
    2001872329 20010601; US 2001872332 20010601; US 2001872372 20010601; US
    2001872376 20010601; US 2001872539 20010601; US 2001873018 20010601; US
    2001873019 20010601
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
  CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
  KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO
  RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 33398

English Abstract
  Through a first network (Internet Connection), a first computing device
  (Router A) receives an information packet (Client Request to Server 1)
  originating from a client. In response to the information packet, the
  first computing device identifies a computing device that stores a data
  structure of a connection with the client (Server 2:IP 123.123.123.3). If
  the identified computing device is the first computing device, the first
  computing device performs an operation in response to the information
  packet. If the identified computing device is a second computing device,
  the first computing device outputs the information packet through a
  second network to the second computing device, such that the output
  information packet bypasses the first network. The second computing
  device performs the operation in response to the information packet.
Fulltext Availability:   Claims
Claim
...  of the connection. 144. The system of Claim 143 wherein the data
  structure includes a  group  of **sequence numbers** associated with the
  connection. 145. The system of Claim 143 wherein the...with the client.
  162. The method of Claim 161 wherein the data structure includes a  group
   of **sequence   numbers**  associated with the connection. 163. The method
  of Claim 161 wherein the application is a...
...of the connection. 165. The method of Claim 164 wherein the data
  structure includes a **group** of **sequence   numbers** associated with the
  connection.  78
  . The method of Claim 164 wherein the application is a...
...of the connection. 168. The method of Claim 167 wherein the data
  structure includes a **group** of **sequence   numbers** associated with the
  connection. 169. The method of Claim 167 wherein the application of the...
...of the connection.  79
  . The method of Claim 170 wherein the data structure includes a **group**
  of **sequence   numbers**  associated with the connection. 172. The method
  of Claim 170 wherein the application of the...

  **25/3,AB,K/21       (Item 6 from file: 349)**
  DIALOG(R)File 349:PCT FULLTEXT

00843189
**SEGMENTATION AND REASSEMBLY OF DATA FRAMES**
**SEGMENTATION ET REASSEMBLAGE DE TRAMES DE DONNEES**
Patent Applicant/Assignee:
  INTEL CORPORATION, 2200 Mission College Boulevard, Santa Clara, CA 95054,
    US, US (Residence), US (Nationality)
Inventor(s):
  GROW Robert M, 15599 Harrow Lane, Poway, CA 92064, US,
  OSMAN Fazil I, 3668 Camino Bajada, Escondido, CA 92025, US,
  ZABA Vitek, 9664 Paseo Montril, San Diego, CA 92129, US,
  PEYSER Robert J, 9851 East Kleindale, Tucson, AZ 85749, US,
Legal Representative:
  WISE Roger R (et al) (agent), Pillsbury Winthrop LLP, 725 South Figueroa
    Street, Suite 2800, Los Angeles, CA 90017-5406, US,
Patent and Priority Information (Country, Number, Date):
  Patent:                WO 200176139 A2-A3 20011011 (WO 0176139)
  Application:           WO 2001US10123 20010328  (PCT/WO US0110123)
  Priority Application: US 2000539795 20000331
Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK
  DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
  LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ
  TM TR TT TZ UA UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 8731
English Abstract
  Embodiments of the present invention are directed to a system and method
  of transmitting data frames between a plurality of input ports and
  plurality of output ports. The input ports segment portions of the
  received data frames to provide smaller data cells which are individually
  transmitted via a logical crossbar to an output port associated with a
  destination of the segmented data frame. Based upon information provided
  in the data cells received at the outport, the outport determines the
  ordinal position of the received data cells within the segmented data
  frame and reassembles the data frame which was segmented at the input
  port. The outport the forwards the reassembled frame toward the
  associated destination.
 Fulltext Availability:  Claims
Claim
  ...  among the forwarded data cells associated with the data frame based upon
data in the  **forwarded**  data cell representative of the  **sequence number** .
    2  The method of claim 1, the method further comprising, at each input
port...


 **25/3,AB,K/22**       **(Item 7 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
00817119
_**METHOD AND APPARATUS FOR GIGABIT PACKET ASSIGNMENT FOR MULTITHREADED PACKET**_
_    **PROCESSING**_
_**PROCEDE   ET   DISPOSITIF   D'ATTRIBUTION   DE PAQUETS TRES HAUT DEBIT, DANS LE**_

### TRAITEMENT MULTIFILIERE DE PAQUETS

Patent Applicant/Assignee:
  INTEL CORPORATION, 2200 Mission College Boulevard, Santa Clara, CA 95052,
    US, US (Residence), US (Nationality), (For all designated states
    except: US)
Patent Applicant/Inventor:
  WOLRICH Gilbert, 4 Cider Mill Road, Framingham, MA 01701, US, US
    (Residence), US (Nationality), (Designated only for: US)
  BERNSTEIN Debra, 443 Peakham Road, Sudbury, MA 01776, US, US (Residence),
    US (Nationality), (Designated only for: US)
  ADILETTA Matthew J, 20 Monticello Drive, Worcester, MA 01603, US, US
    (Residence), US (Nationality), (Designated only for: US)
  HOOPER Donald F, 19 Main Circle, Shrewsbury, MA 01545, US, US (Residence)
    , US (Nationality), (Designated only for: US)
Legal Representative:
  HARRIS Scott C (agent), Fish & Richardson P.C., 4350 La Jolla Village
    Drive, Suite 500, San Diego, CA 92122, US,
Patent and Priority Information (Country, Number, Date):
  Patent:                  WO 200150679 A2-A3 20010712 (WO 0150679)
  Application:             WO 2000US33405 20001207  (PCT/WO US0033405)
  Priority Application: US 99474650 19991229
Parent Application/Grant:
  Related by Continuation to: US 99474650 19991229 (CON)
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ
  DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ
  LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG
  SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 11885

English Abstract
  A network processor that has multiple processing elements, each
  supporting multiple simultaneous program threads with access to shared
  resources in an interface. Packet data is received from high-speed ports
  in segments and each segment is assigned to one of the program threads.
  Each packet may be assigned to a single program thread, two program
  threads – one for header segment processing and the other for handling
  payload segment(s) – or a different program thread for segment of data in
  a packet. Dedicated inputs for ready status and sequence numbers provide
  assistance needed for receiving the packet data over a high speed port.
  The dedicated inputs are used to monitor ready flags from the high speed
  ports on a cycle-by-cycle basis. The sequence numbers are used by the
  assigned threads to maintain ordering of segments within a packet, as
  well as to order the writes of the complete packets to transmit queues.
Fulltext Availability:  Claims
Claim
... units of data as they are received from the first port and maintains a
second set of sequence  numbers for use by the receive processing
program threads in determining the order in which the...
...data.
  25 An article comprising a computer-readable medium which stores computer-
executable instructions for forwarding  data, the instructions causing a

computer to:
  associate control information with data received from a...from the first
port.
  26 The article of claim 25, wherein the control information includes
**sequence numbers** .
  2  7 . The article of claim 26, wherein the instructions to use the
associated control information...

  **25/3,AB,K/23       (Item 8 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
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00813510
**DIGITAL TRADING CARD, SYSTEM, AND METHOD**
**CARTE DE COLLECTION NUMERIQUE, SYSTEME ET PROCEDE**
Patent Applicant/Assignee:
  CYBERACTION INC, Suite 3B, 126 Fifth Avenue, New York, NY 10001, US, US
    (Residence), US (Nationality)
Inventor(s):
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    , US,
  MARION Martin, Apartment 3, 26 Washington Square North, New York, NY
    10011, US,
  SEIDMAN Deborah, 5 Rose Hill Road, Sufern, NY 10901, US,
  ERSAVAS Mehmet T, Apartment 4-D, 550 West 172nd Street, New York, NY
    10035, US,
  DELAPENA Michael, 195 5th Avenue #3R, Brooklyn, NY 11217, US,
Legal Representative:
  MORRIS Francis E (et al) (agent), Pennie & Edmonds LLP, 1155 Avenue of
    the Americas, New York, NY 10036, US,
Patent and Priority Information (Country, Number, Date):
  Patent:            WO 200147166 A1 20010628 (WO 0147166)
  Application:       WO 2000US34892 20001221  (PCT/WO US0034892)
  Priority Application: US 99469005 19991221
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ
  DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ
  LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG
  SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 14262
English Abstract
  A communication network based system for distributing, collecting,
  playing, and trading digital trading cards and other digital collectibles
  is disclosed. The system preferably includes the digital trading cards, a
  server (10) and related databases (30, 40, 50, 60, 65)), user computers,
  and user software for accessing the digital trading cards. In the
  preferred embodiment, the digital trading cards are issued in limited
  editions and the digital trading cards are uniquely associated with a
  user that has obtained the cards. The digital trading cards may then only
  be accessed by the user. The digital trading cards include multiple
  faces. Preferably, a first front of the cards includes an artwork (e.g.,

a photo, an illustration, or an enhanced photo composition) and a second
front includes an audio/visual screen. The digital trading cards also
preferably have multiple backs which may include, for example,
information on a particular person or topic as well as games. Moreover,
the cards can access the server to download and display current
information in real-time. Advantageously, one of the faces of the limited
edition cards may also display the unique serial number for the card.
Users may also connect to the server to utilize the cards in on-line games.
Fulltext Availability:  Claims
Claim
... and the user.
33 The method of claim 32, wherein the identifier code is a **serial number**
of a limited **set** of **serial numbers.**
- 46
, In a communication-network based digital collectible object system, a
method of uniquely associating...
...the step of downloading the digital collectible object to the user's
computer includes 30 **updating** the directory in the user's computer...


**25/3,AB/24**   **(Item 9 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
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00739517
**A HIGH PERFORMANCE NETWORK INTERFACE**
**INTERFACE RESEAU HAUTE PERFORMANCE**
Patent Applicant/Assignee:
  SUN MICROSYSTEMS INC, 901 San Antonio Road, Palo Alto, CA 94303, US, US
    (Residence), US (Nationality)
Inventor(s):
  MULLER Shimon, Apartment D, 983 La Mesa Terrace, Sunnyvale, CA 94086, US
  GENTRY Denton, 34892 Sea Cliff Terrace, Fremont, CA 94555, US
  WATKINS John, 1469 Yukon Drive, Sunnyvale, CA 94087, US
  CHENG Linda, 1318 Burkette Drive, San Jose, CA 95129, US
Legal Representative:
  VAUGHAN Daniel E, Park & Vaughan LLP, Suite 5, 399 Sherman Avenue, Palo
    Alto, CA 94306, US
Patent and Priority Information (Country, Number, Date):
  Patent:            WO 200052904 A1 20000908 (WO 0052904)
  Application:       WO 2000US5349 20000229  (PCT/WO US0005349)
  Priority Application: US 99259765 19990301
Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK
  DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
  LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ
  TM TR TT TZ UA UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 78802
English Abstract
  A network interface receives a packet from a network and transfers it to
  a host computer system. A header portion of the packet is parsed by a
  parser module to determine if the packet conforms to a predetermined
  protocol. A flow database is maintained by a flow database manager to

reflect the creation, termination and activity of communication flows. A
re-assembly engine re-assembles data portions of multiple packets from a
single communication flow. Header portions of re-assembled packets are
stored in a header buffer. When multiple packets in one flow are
transferred to the host, a packet batching module enables their header
portions to be processed collectively rather than being interspersed with
other packets. A packet queue stores packets awaiting transfer to the
host and a control queue stores information concerning the waiting
packets. If the packet queue becomes saturated with packets, a random
packet may be discarded.

**25/3,AB,K/25      (Item 10 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
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00739510
**DYNAMIC PARSING IN A HIGH PERFORMANCE NETWORK INTERFACE**
**ANALYSE DYNAMIQUE DANS UNE INTERFACE RESEAU HAUTE PERFORMANCE**
Patent Applicant/Assignee:
  SUN MICROSYSTEMS INC, 901 San Antonio Road, Palo Alto, CA 94303, US, US
    (Residence), US (Nationality)
Inventor(s):
  GENTRY Denton, 34892 Sea Cliff Terrace, Fremont, CA 94555, US
Legal Representative:
  VAUGHAN Daniel E, Park & Vaughan LLP, Suite 5, 399 Sherman Avenue, Palo
    Alto, CA 94306, US
Patent and Priority Information (Country, Number, Date):
  Patent:                 WO 200052897 A2 20000908 (WO 0052897)
  Application:            WO 2000US5348 20000229  (PCT/WO US0005348)
  Priority Application: US 99258955 19990301
Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK
  DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
  LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ
  TM TR TT TZ UA UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 31072
English Abstract

  A high performance network interface parses one or more headers of a
  packet received from a network to determine whether the packet conforms
  to a predetermined protocol. A packet conforming to a particular protocol
  may be more completely parsed than a packet conforming to another
  protocol. Instructions for parsing a packet to determine a protocol and
  to extract useful data are stored in a writeable random-access memory.
  The parsing instructions may be replaced, modified or supplemented
  according to the composition of network traffic and/or the protocols
  selected for enhanced processing. A parsing instruction may be executed
  by a micro-sequencer to extract a value from a header and compare it to a
  test value. If the comparison succeeds, parsing continues along a first
  branch; if the comparison succeeds it continues along a second branch. An
  offset to a parsing position within the packet is updated as the packet
  is parsed.
Fulltext Availability:  Claims

Claim
... 8
  YES
  NO TEAR DOWN FLOW;
  TO FOLLOW? SELECT OPCODE 3 FOR
  0 PACKET
  626
  **UPDATE**  FLOW  **SEQUENCE**
  **NUMBER**  & ACTIVITY
  INDICATOR;  **SET**  FLOW
  VALIDITY INDICATOR
  622
  SELECT OPCODE 4 FOR
  PACKET
  624
  FiGs 6B
  9 / 13
  YES...


  **25/3,AB,K/26**      **(Item 11 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.
00739509
**METHOD  AND  APPARATUS  FOR  MANAGING  A NETWORK FLOW IN A HIGH PERFORMANCE
    NETWORK INTERFACE**
**PROCEDE  ET  APPAREIL DE GESTION D'UN FLUX RESEAU DANS UNE INTERFACE RESEAU
    HAUTE PERFORMANCE**
Patent Applicant/Assignee:
  SUN MICROSYSTEMS INC, 901 San Antonio Road, Palo Alto, CA 94303, US, US
    (Residence), US (Nationality)
Inventor(s):
  MULLER Shimon, Apartment D, 983 La Mesa Terrace, Sunnyvale, CA 94086, US,
  GENTRY Denton, 34892 Sea Cliff Terrace, Fremont, CA 94555, US,
Legal Representative:
  VAUGHAN Daniel E (et al) (agent), Park & Vaughan LLP, Suite 310, 702
    Marshall Street, Redwood City, CA 94063, US,
Patent and Priority Information (Country, Number, Date):
  Patent:              WO 200052896 A2-A3 20000908 (WO 0052896)
  Application:        WO 2000US5244 20000229  (PCT/WO US0005244)
  Priority Application: US 99259932 19990301
Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK
  DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
  LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ
  TM TR TT TZ UA UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 35541
English Abstract
  A system and method are provided for managing a flow of packets through a
  network interface. A network flow is established for each datagram sent
  from a source entity to a destination entity. A flow key identifies the
  source and destination entities and is stored with information concerning

validity of the flow, data sequencing within the flow datagram and how
recently the flow was active. When a packet within a network flow is
received, an operation code is generated for identifying whether the
packet is suitable for a particular network interface function. One
operation code may indicate that a packet contains data to be
re-assembled with other flow data. Another operation code may indicate
that a packet is unsuitable for data re-assembly. Another operation code
may specify that the packet is a control packet, has no data, or was
received out of order.
Fulltext Availability: Claims
Claim
... 618
  YES
  NO TEAR DOWN FLOW;
  TO FOLLOW? SELECT OPCODE 3 FOR
  0 PACKET
  626
  **UPDATE** FLOW **SEQUENCE**
  **NUMBER** & ACTIVITY
  INDICATOR; **SET** FLOW
  VALIDITY INDICATOR
  622
  SELECT OPCODE 4 FOR
  PACKET
  .624
  FIGn 6B
  9 / 16
  B...


  **25/3,AB,K/27**      **(Item 12 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.
00739498
**METHOD AND APPARATUS FOR DYNAMIC PACKET BATCHING WITH A HIGH PERFROMANCE
    NETWORK INTERFACE**
**PROCEDE ET APPAREIL DE MISE EN LOTS DYNAMIQUE DE PAQUETS AVEC UNE INTERFACE
    RESEAU HAUTE PERFORMANCE**
Patent Applicant/Assignee:
  SUN MICROSYSTEMS INC, 901 San Antonio Road, Palo Alto, Ca 94303, US, US
    (Residence), US (Nationality)
Inventor(s):
  MULLER Shimon, Apartment D, 983 La Mesa Terrace, Sunnyvale, CA 94086, US
  GENTRY Denton, 34892 Sea Cliff Terrace, Fremont, CA 94555, US
Legal Representative:
  VAUGHAN Daniel E, Park & Vaughan LLP, Suite 310, 702 Marshall Street,
    Redwood City, CA 94063, US
Patent and Priority Information (Country, Number, Date):
  Patent:              WO 200052883 A2 20000908 (WO 0052883)
  Application:         WO 2000US5344 20000229  (PCT/WO US0005344)
  Priority Application: US 99260324 19990301
Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK
  DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
  LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ
  TM TR TT TZ UA UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

```
        (AP) GH GM KE LS MW SD SL SZ TZ UG ZW
        (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 47104
```

English Abstract

A system and method are provided for identifying related packets in a
communication flow for the purpose of collectively processing them on a
host computer. A packet received at a network interface is parsed to
retrieve information from a protocol header. A flow key is generated to
identify a communication flow that includes the packet, and is stored in
a database of flow keys. When the packet is placed in a queue to be
transferred to a host computer, the flow key and/or its index in the
database is stored in a separated queue. A dynamic packet batching module
searches for a packet in the same flow as the packet being transferred.
If a related packet is located, the host computer is alerted and delays
processing the transferred packet until the related packet is also
received. By collectively processing the related packets, processor time
is more efficiently utilized.

```
Fulltext Availability:  Claims
Claim
... YES
   ir
   NO TEAR DOWN FLOW;
   TO FOLLOW? SELECT OPCODE 3 FOR
   620 PACKET
   626
   UPDATE   FLOW   SEQUENCE
   NUMBER   & ACTIVITY
   INDICATOR;  SET   FLOW
   VALIDITY INDICATOR
   622
   SELECT OPCODE 4 FOR
   PACKET
   624
   FIGm 6B
   -WO 00/52883...
```

25/3,AB,K/29   (Item 14 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00739496
**METHOD AND APPARATUS FOR DISTRIBUTING NETWORK TRAFFIC PROCESSING ON A
     MULTIPROCESSOR COMPUTER**
**PROCEDE ET APPAREIL DE REPARTITION DU TRAITEMENT DU TRAFIC RESEAU AU NIVEAU
     D'UN ORDINATEUR A PROCESSEURS MULTIPLES**
Patent Applicant/Assignee:
   SUN MICROSYSTEMS INC, 901 San Antonio Road, Palo Alto, CA 94303, US, US
     (Residence), US (Nationality)
Inventor(s):
   MULLER Shimon, Apartment D, Sunnyvale, CA 94086, US
   GENTRY Denton, 34892 Sea Cliff Terrace, Fremont, CA 94555, US
Legal Representative:
   VAUGHAN Daniel E, Park & Vaughan LLP, 399 Sherman Avenue, Suite 5, Palo
     Alto, CA 94306, US
Patent and Priority Information (Country, Number, Date):

```
Patent:                 WO 200052881 A2 20000908 (WO 0052881)
Application:            WO 2000US5306 20000229  (PCT/WO US0005306)
Priority Application: US 99259445 19990301
```
Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK
   DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
   LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ
   TM TR TT TZ UA UG UZ VN YU ZA ZW
   (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
   (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
   (AP) GH GM KE LS MW SD SL SZ TZ UG ZW
   (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 33509

English Abstract

A system and method are provided for distributing the processing of
network traffic received at a multiprocessor computer system. A packet is
received from a network entity at a network interface circuit. A header
portion of the packet is parsed to retrieve information stored in one or
more protocol headers, such as source and destination identifiers or a
virtual communication connection identifier. A source identifier and a
destination identifier may be combined to form a flow key that is then
subjected to a hash function. The modulus of the result of the hash
function over the number of processors in the multiprocessor computer is
then calculated. The result identifies a host processor to which the
packet is submitted for processing. In another embodiment a modulus
operation is performed on the packet's virtual communication connection
identifier. The result of the modulus operation identifies the processor
to service the packet.

Fulltext Availability: Claims

Claim

... 628
  NO
  OKAY?
  NO TEAR DOWN FLOW;
  TO FOLLOW? SELECT OPCODE 3 FOR
  PACKET
  626
   UPDATE FLOW **SEQUENCE**
   NUMBER & ACTIVITY
  INDICATOR; **SET** FLOW
  VALIDITY INDICATOR
  622
  SELECT OPCODE 4 FOR
  PACKET
  624
  FIGm 6B
  YES REPLACE FLOW...

 25/3,AB,K/30   **(Item 15 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
00739494
**METHOD AND APPARATUS FOR DATA RE-ASSEMBLY WITH A HIGH PERFORMANCE NETWORK
    INTERFACE**
PROCEDE ET APPAREIL DE REUNION DE DONNEES DOTE D'UNE INTERFACE RESEAU HAUTE

PERFORMANCE

Patent Applicant/Assignee:
  SUN MICROSYSTEMS INC, 901 San Antonio Road, Palo Alto, CA 94303, US, US
    (Residence), US (Nationality)
Inventor(s):
  MULLER Shimon, Apartment D, 983 La Mesa Terrace, Sunnyvale, CA 94086, US
  GENTRY Denton, 34892 Sea Cliff Terrace, Fremont, CA 94555, US
  CHENG Linda, 1318 Burkette Drive, San Jose, CA 95129, US
  WATKINS John, 1469 Yukon Drive, Sunnyvale, CA 94087, US
Legal Representative:
  VAUGHAN Daniel E, Park & Vaughan LLP, Suite 5, 399 Sherman Avenue, Palo
    Alto, CA 94306, US
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200052879 A2 20000908 (WO 0052879)
  Application: WO 2000US5245 20000229 (PCT/WO US0005245)
  Priority Application: US 99260333 19990301
Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK
  DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
  LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ
  TM TR TT TZ UA UG UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 67365

English Abstract

  A system and method are provided for transferring a packet received from
  a network to a host computer. A flow key is generated to identify a
  communication flow that comprises the packet. A code is generated to
  indicate how the packet should be transferred to host memory. Based on
  the code, a transfer engine stores the packet in one or more host
  buffers. If the packet conforms to a predetermined protocol, its data is
  added to a re-assembly buffer with data from other packets in the same
  flow and its header portion is stored in a header buffer. Otherwise, the
  packet is stored in the header buffer if it is smaller than a
  predetermined threshold or, if larger than the threshold, it is stored in
  another buffer. After a packet is stored, the transfer engine configures
  a descriptor with information concerning the packet and releases the
  descriptor to the host.

Fulltext Availability: Claims
Claim
... YES
  IF
  NO TEAR DOWN FLOW;
  TO FOLLOW? SELECT OPCODE 3 FOR
  20 PACKET
  626
  UPDATE FLOW **SEQUENCE**
  NUMBER & ACTIVITY
  INDICATOR; **SET** FLOW
  VALIDITY INDICATOR
  622
  SELECT OPCODE 4 FOR
  PACKET

624
FIGs 6B
YES REPLACE FLOW... ˙

25/3,AB,K/31   (Item 16 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00739485
**METHOD AND APPARATUS FOR CLASSIFYING NETWORK TRAFFIC IN A HIGH PERFORMANCE
    NETWORK INTERFACE**
**PROCEDE ET APPAREIL DE CLASSIFICATION DU TRAFIC RESEAU AU NIVEAU D'UNE
    INTERFACE RESEAU A HAUT RENDEMENT**
Patent Applicant/Assignee:
  SUN MICROSYSTEMS INC, 901 San Antonio Road, Palo Alto, CA 94303, US, US
    (Residence), US (Nationality)
Inventor(s):
  MULLER Shimon, Apartment D, 983 La Mesa Terrace, Sunnyvale, CA 94086, US
  GENTRY Denton, 34892 Sea Cliff Terrace, Fremont, CA 94555, US
  WATKINS John, 1469 Yukon Drive, Sunnyvale, CA 94087, US
  CHENG Linda, 1318 Burkette Drive, San Jose, CA 95129, US
Legal Representative:
  VAUGHAN Daniel E, Park & Vaughan LLP, Suite 5, 399 Sherman Avenue, Palo
    Alto, CA 94306, US
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200052869 A2 20000908 (WO 0052869)
  Application: WO 2000US5307 20000229 (PCT/WO US0005307) .
  Priority Application: US 99260618 19990301
Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK
    DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
    LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ
    TM TR TT TZ UA UG UZ VN YU ZA ZW   .
    (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
    (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
    (AP) GH GM KE LS MW SD SL SZ TZ UG ZW
    (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 30994
English Abstract
  A network interface circuit includes a header parser for parsing a packet
  having a data portion and a header portion. If the packet conforms to a
  pre-selected protocol, the header portion of the packet is parsed to
  retrieve one or more values from individual protocol headers, such as an
  identifier of a source entity from which data in the data portion
  originated and an identifier of a destination entity. The identifiers are
  combined to form a key to identify communications between the source
  entity and the destination entity. Other information may also be
  retrieved from the header portion, including an indicator of the size of
  the data portion and a sequence number of the data within a larger
  collection of data. If the packet does not conform to the pre-selected
  communication protocols, a signal may be generated to alert other
  elements of the network interface circuit.
Fulltext Availability: Claims
Claim
... NO
  OKAY?

18
NO TEAR DOWN FLOW;
TO FOLLOW? SELECT OPCODE 3 FOR
PACKET
626
 UPDATE FLOW **SEQUENCE**
 NUMBER & ACTIVITY
INDICATOR; **SET** FLOW
VALIDITY INDICATOR
622
SELECT OPCODE 4 FOR
PACKET
624
FiGn 6B
/13
YES REPLACE...

 25/3,AB,K/37   **(Item 22 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
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00332075
**METHOD AND SYSTEM FOR MAPPING AND TRACKING INFORMATION FROM A PLURALITY OF
    REMOTE STATIONS**
**PROCEDE ET SYSTEME DE MISE EN CORRESPONDANCE ET DE RECHERCHE D'INFORMATION
    A PARTIR DE PLUSIEURS STATIONS A DISTANCE**
Patent Applicant/Assignee:
  MINTZ Yosef,
  FENSTER Paul,
Inventor(s):
  MINTZ Yosef,
  FENSTER Paul,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 9614586 A1 19960517
  Application: WO 95US13232 19951018 (PCT/WO US9513232)
  Priority Application: IL 111502 19941102; WO 95EP1330 19950410; IL 114219
    19950619; IL 115579 19951011
Designated States: AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU
  IS JP KE KG KP KR KZ LK LR LT LU LV MD MG MN MW MX NO NZ PL PT RO RU SD
  SE SG SI SK TJ TM TT UA UG US UZ VN KE MW SD SZ UG AT BE CH DE DK ES FR
  GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 24358
English Abstract
  A method of mapping (Figure 10) a characteristic value of a plurality of
  remote stations (18-24) each having a varying attribute affecting the
  characteristic value computed according to a predetermined procedure
  comprising: (a) assigning a plurality of transmission slots to each of
  the remote stations; (b) determining, by the respective stations, of
  their characteristic values; (c) initially broadcasting, by the
  respective stations, of their determined characteristic values in said
  plurality of transmission slots, said broadcast characteristic value
  having a first characteristic value resolution; and (d) subsequently
  broadcasting, by the stations, of their respective characteristic values
  in said plurality of transmission slots, said subsequent broadcasting
  having a finer characteristic value resolution relative to said
  previously broadcasted characteristic value having a first characteristic

   value resolution.
Fulltext Availability: Claims
Claim
... size of the resolution element is decreased when a remote - 73 I station broadcasts no **change** in characteristic value for a **2** predetermined **number** of **consecutive** broadcasts, 4 26, 7 method of tracking according to any of claims 16-25...

```
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200406
File 347:JAPIO Oct 1976-2003/Sep(Updated 040105)
Set      Items    Description
S1         146    CASH()CONTROL????
S2      121715    SAFE OR SAFES OR CASHBOX OR CASHBOXES OR CASH()REGISTER? ?
S3     1333902    SEQUEN? OR CONSECUTIV? OR SUCCESSIV? OR SUCCESSION? OR SUC-
                    CEEDING OR NEXT OR SUBSEQUENT?
S4      882054    FOLLOW???
S5     1501469    NUMBER?? OR NUMERICR?
S6      148821  . IC=G06F-017/60 OR IC=G07G-001
S7        1297    CASH(5N)CONTROL????
S8        1654    S3()S4 OR S4(N)S5
S9           9    S2 AND S8
S10          0    S1 AND S8
S11          0    S7 AND S8
S12         16    S6 AND S8
S13          1    S9 AND S12 [not relevant]
S14         23    (S9 OR S12) NOT S13
S15          0    S1 AND S8
S16          2    S1 AND S2 AND S3
S17          2    S16 NOT S13:S14
S18         34    S7 AND S2 AND S3
S19         12    S6 AND S18
S20         11    S19 NOT (S13 OR S14 OR S16)
S21         23    S1 AND S6
S22         22    S21 NOT (S13:S14 OR S16 OR S19)
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14/26,TI/1   **(Item 1 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
015572098
WPI Acc No: 2003-634255/200360
  **Manufacture data project management method - follow the manufacture
  request and the product to generate a project number and a corresponding
  project data folder**

 14/26,TI/2   **(Item 2 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
015384917
WPI Acc No: 2003-445860/200342
  **System for selling lottery ticket and method for selling total lottery
  ticket**

 14/26,TI/3   **(Item 3 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
015021135
WPI Acc No: 2003-081652/200308
**Time sequential data prediction method for commercial/economic application,
involves calculating transitional probability of following state based on
stored states and correcting probability according to predicted state**

 14/26,TI/4   **(Item 4 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014979345
WPI Acc No: 2003-039859/200303
**Attributable error identification method in financial processes of hospitals,
involves performing nested analysis for variance of financial data values
that are not normally distributed, to identify causes of variance**

14/26,TI/6   (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
014527941
WPI Acc No: 2002-348644/200238
  Method for managing lottery number and system for providing lottery

14/26,TI/7   (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
013850353
WPI Acc No: 2001-334566/200135
  **Electronic money transfer method for electronic commerce, includes using
  telephone cards to credit dialed desired amount in account associated
  with predetermined telephone number**

14/7,K/13   (Item 13 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
009362903
WPI Acc No: 1993-056381/199307
Method for managing sales by shops in cash   register **- by checking
recording of sale item, then on confirmation, checking issue of shop designed
sale number ,** followed **by checking whether commodity key is input
NoAbstract**
Patent Assignee: SAMSUNG ELECTRONICS CO (SMSU)
Inventor: JOH Y
Number of Countries: 001 **Number** of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
KR 9204437	B	19920605	KR 8913317	A	19890912	199307	B

Priority Applications (No Type Date): KR 8913317 A 19890912
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
KR 9204437	B			G06F-015/21	

Derwent Class: T01; T05
International Patent Class (Main): G06F-015/21

14/7,K/16   (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
07538817   **Image available**
METHOD AND DEVICE FOR GENERATING AND PRESENTING PROGRAM ASSOCIATED CONTENTS
PUB. NO.:   2003-032654 [JP 2003032654 A]
PUBLISHED: January 31, 2003 (20030131)
INVENTOR(s):   HASHIMOTO TAKAKO
               IIZAWA ATSUSHI
APPLICANT(s): JISEDAI JOHO HOSO SYSTEM KENKYUSHO KK
               RICOH CO LTD
APPL. NO.:   2001-216039 [JP 20011216039]

FILED: July 16, 2001 (20010716)
                          ABSTRACT
PROBLEM TO BE SOLVED: To allow a user to passively view information
personalized for each user without any complicate interaction, and to view
his or her desired information in his or her desired order in a limited
display region of a portable terminal.
SOLUTION: A program video and program associated information is inputted,
and program associated contents are generated based on a preliminarily
defined tree structure, and leaf nodes in the tree structure of the program
associated contents are selected as presentation candidates for each user
based on viewing data quantity preliminarily set as a viewing request by
each user who has a portable terminal, and a presentation route
successively following the leaf nodes being the presentation candidates
by starting with the route of the tree structure is generated for each user
as a presentation scenario, and the generated presentation scenario is
transmitted to the portable terminal of the pertinent user.
COPYRIGHT: (C)2003,JPO
INTL CLASS: H04N-007/173; **G06F-017/60** ; H04H-001/00; H04H-001/02;
                H04H-007/00

   14/7,K/18   (Item 3 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
07483433   **Image available**
WORK INFORMATION COLLECTING SYSTEM AND WORK INFORMATION COLLECTING TERMINAL
PUB. NO.:   2002-351951 [JP 2002351951 A]
PUBLISHED: December 06, 2002 (20021206)
INVENTOR(s):   HISAKAWA AKIRA
APPLICANT(s):   HORIBA LTD
APPL. NO.:   2001-159827 [JP 20011159827]
FILED: May 29, 2001 (20010529)
                          ABSTRACT
PROBLEM TO BE SOLVED: To provide a work information collecting system and a
work information collecting terminal which can collect accurate work
information without burdening a worker.
SOLUTION: This system is composed of a work information collecting terminal
1, which collects data about work item and work time as work information;
and a computer 2, which executes a prescribed data processing according to
the work information collected by this terminal 1. The terminal 1 has
plural work keys 5 which are allocated by each work item of major division.
On a display part 4, work items of minor division are displayed
sequentially following the work items of major division. When an
appropriate work item is inputted, work time of each work item is
calculated, and data of the work item and work time is recorded in a memory
card 3. The data in the memory card 3 is read into the computer 2, and data
processing is executed and the result is outputted in the computer 2.
COPYRIGHT: (C)2003,JPO
INTL CLASS: **G06F-017/60** ; G05B-019/418

   14/7,K/21   (Item 6 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
05155486   **Image available**
ACCOUNTING MACHINE WITH RECEIPT MANAGEMENT
PUB. NO.:   08-110986 [JP 8110986 A]
PUBLISHED: April 30, 1996 (19960430)

INVENTOR(s):   KANO HIROMITSU
               TSURUMARU KOICHI
APPLICANT(s): SANYO ELECTRIC CO LTD [000188] (A Japanese Company or
               Corporation), JP (Japan)
APPL. NO.:   06-246289 [JP 94246289]
FILED: October 12, 1994 (19941012)

ABSTRACT

PURPOSE: To exclude the receipts whose inspection is unnecessary in the
inspection work of the sales summing-up processing and to improve the
inspection efficiency by adding a **serial number,** which is never doubly
issued on a receipt for recognition of the amount of money in the sales
summing-up processing, in the issue work of an adjustment bill, an advance
reception receipt, or the like and additionally printing a branch **number
 following** the **serial number** at the time of issuing the receipt again.
CONSTITUTION: The frequency of a branch **number** of the receipt summed and
added by a receipt issue part 1112 is counted in an equipment-classified
branch **number** storage part 1122, and it is accumulated for every equipment
in a short-term equipment- classified branch **number** accumulation part 1124
at the time of check-in to the equipment and is cleared thereafter.
Contents of the short-term equipment-classified branch **number** accumulation
part 1124 are printed as the use condition of branch **number**s together with
the total of sales by a short-term sales summing-up processing part 1113,
and the frequency in use is accumulated for every equipment in a long-term
equipment-classified branch **number** accumulation part 1125 and is cleared
thereafter. Branch **number**s in the long-term equipment-classified branch
number accumulation part 1125 are printed by a long-term sales summing-up
processing part 1115 and are cleared thereafter
INTL CLASS: **G07G-001/12 ; G07G-001/12**

   17/7,K/1   (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
012444085   **Image available**
WPI Acc No: 1999-250193/199921
   Electronic cash register **- has CPU which compares invested amount of
   money and detected money under custody and when found to be equal, money
   is approved for** next **transaction**
Patent Assignee: TOKYO ELECTRIC CO LTD (TODK)
Number of Countries: 001 **Number** of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
JP 11073573   A   19990316 JP 97235261   A   19970829 199921 B
Priority Applications (No Type Date): JP 97235261 A 19970829
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
JP 11073573 A   12 G07G-001/12
Abstract (Basic): JP 11073573 A
        NOVELTY - A CPU (11) detects amount of currency kept under custody.
    Amount of invested money and detected money under custody are compared
    and when found to be equal the money is approved for **next** transaction
    by CPU, or else CPU disapproves. DETAILED DESCRIPTION - INDEPENDENT
    CLAIMS are included for the following: goods transaction procedure;
    memory medium for storing goods transaction procedure.
        USE - For keeping account of every transaction.
        ADVANTAGE - Ensures safety of **cash   control** at cash handling
    terminal. DESCRIPTION OF DRAWING(S) - The figure shows block diagram of

electronic **cash** **register** . (11) CPU.
    Dwg.1/8
Derwent Class: T05
International Patent Class (Main): G07G-001/12

 17/7,K/2   **(Item 1 from file: 347)**
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
04752036   **Image available**
AUTOMATIC TRANSACTION DEVICE
PUB. NO.:   07-044636 [JP 7044636 A]
PUBLISHED: February 14, 1995 (19950214)
INVENTOR(s):   MORIKAWA HISAO
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP
           (Japan)
APPL. NO.:   05-187983 [JP 93187983].
FILED: July 29, 1993 (19930729)
                                    ABSTRACT
PURPOSE: To provide an automatic transaction device which is capable of
improving fund efficiently by reducing cash amount to be set in an
incorporated **safe** as much as possible.
CONSTITUTION: In automatic transaction devices 3A to 3C and 4 automtically
performing money receiving and paying transactions, etc., by inputting
information required for transactions by the operations of users and by
performing on-line communications with a host computer 9 connected by an
on-line via a communication line, proper cash amount to be stored in an
incorporated **safe** , cash supplement time to the **safe** or cash collection
time from the **safe** is calculated based on data of special days before and
after **consecutive** holidays for the month or the year, weekdays, weather,
etc., and cash data classified by time zones showing necessary cash amount
every preliminarily set time zone, the calculated result is displayed on a
display part as necessary, and the result is printed and outputted by a
single slip printing part, by a **cash** **controller** 1 controlling cash
operations.

 20/26,TI/1   **(Item 1 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
014317460
WPI Acc No: 2002-138162/200218
 Display system for cash **register** **network has guest processor linked
 to system which extracts data for display and can be controlled using one
 of the** cash **registers** **on the network**

 20/26,TI/5   **(Item 5 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
007942885
WPI Acc No: 1989-207997/198929
 Control of electronic cash **register** **printer - using print character
 counter to control generation of reset to index paper**

 20/26,TI/10   **(Item 3 from file: 347)**
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
00743363

INLINE INFORMATION PROCESSING SYSTEM

 20/7,K/3   (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
009260818
WPI Acc No: 1992-388231/199247
   Cash   register **mode** control **method - controlling mode change
   according to** next **mode flags, scanning key input to check code
   processing mode, storing code of corresp. mode, setting first flag to
   mask and setting second flag according to stored code NoAbstract**
Patent Assignee: SAMSUNG ELECTRONICS CO LTD (SMSU)
Inventor: LEE H
Number of Countries: 001 **Number** of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
KR 9107768   B   19911002 KR 89104   A   19890107 199247 B
Priority Applications (No Type Date): KR 89104 A 19890107
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
KR 9107768   B   G07G-001/00
Derwent Class: T05
International Patent Class (Main): **G07G-001/00**

 20/7,K/4   (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
007976484
WPI Acc No: 1989-241596/198933
   Cash   register **with multi-window display - has controller for storing
   sales data into two storage areas and for transmitting data from second
   area to communication line**
Patent Assignee: MATSUSHITA ELEC IND CO LTD (MATU)
Inventor: FUYAMA S; KODAMA M; MINATO T; MORI T; TAKAOKA Y
Number of Countries: 001 **Number** of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
US 4843547   A   19890627 US 86876199   A   19860619 198933 B
Priority Applications (No Type Date): JP 85133263 A 19850619
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
US 4843547   A   10
Abstract (Basic): US 4843547 A
        A first **cash   register** operating in a registration mode is
    connected by a communication line to a second **cash   register**
    operating in a calculation mode to serve customers forming a waiting
    line extending from the first **cash   register** to the second. Sales
    data are registered by the first **cash   register** , with the data of an
    earliest one of the customers being displayed on a first display unit
    and the sales data of all the customers being stored **sequentially**
    into respective second storage areas when a communications line is
    busy. When the line becomes available, the sales data are transmitted
    to the second **cash   register** from the second storage areas
    sequentially .
        The second **cash   register** stores the transmitted sales data
    into third and fourth storage areas in **succession** and provides a

simultaneous display of the sales data stored in the fourth storage
areas on respective window areas of a second display unit. An adder
sequentially calculates the sales data stored in the fourth storage
areas in response to operation of a **control** key. Each **cash
register** is operable independently in the registration and calculation
modes.
     ADVANTAGE - Permits sales persons to serve rush of orders
Derwent Class: T05
International Patent Class (Additional): **G07G-001/12**

  20/7,K/6   **(Item 6 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
007816354
WPI Acc No: 1989-081466/198911
  Electronic cash register **system with data communication** control
  unit - assigns master station to each ECR **seque**ntially **in order**
  registered in memory NoAbstract Dwg 0/4
Patent Assignee: SANYO ELECTRIC CO (SAOL); TOTTORI SANYO DENKI KK (TOTT)
Number of Countries: 001 **Number** of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
JP 1034033   A   19890203 JP 87189916   A   19870729 198911 B
Priority Applications (No Type Date): JP 87189916 A 19870729
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
JP 1034033   A   5
Derwent Class: T01; T05; W01
International Patent Class (Additional): G06F-015/21; **G07G-001/14** ;
  H04L-011/00

  20/7,K/7   **(Item 7 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
001438189
WPI Acc No: 1976-A1072X/197601
  Data control system for cash register **- with simplified data input**
  and display has data storage unit and keyboard
Patent Assignee: CANON KK (CANO)
Number of Countries: 002 **Number** of Patents: 003
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
DE 2526864   A   19760102   197601 B
US 4075696   A   19780221   197810
DE 2526864   B   19810312   198112
Priority Applications (No Type Date): JP 7468881 A 19740617
Abstract (Basic): DE 2526864 A
     The system has a data input unit (10, 11), a data storage unit
  (13a, 13b) and a data transfer unit (12) to take data from the storage
  unit when the input unit is not operating and to take data from the
  input unit when the latter is operated. The data input unit pref. has a
  keyboard (10). Pref. there are two storage units and a decision unit
  which determines from which storage unit the data should be taken. For
  use with e.g. a **cash   register** , the system may have input registers
  for presetting and storage of classified articles, a memory for
  infrequently occurring articles, and accumulators with selectors and an

instruction **sequence** circuit.
Derwent Class: T01; T04; T05
International Patent Class (Additional): G06F-003/00; G06F-015/22;
  G07G-001/00

20/7,K/8   (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
05915767   **Image available**
COMMODITY SALE DATA PROCESSOR
PUB. NO.:   10-198867 [JP 10198867 A]
PUBLISHED: July 31, 1998 (19980731)
INVENTOR(s):   SUGIURA JIRO
APPLICANT(s): TEC CORP [000356] (A Japanese Company or Corporation), JP
               (Japan)
APPL. NO.:   09-001209 [JP 971209]
FILED: January 08, 1997 (19970108)

ABSTRACT

PROBLEM TO BE SOLVED: To surely hand over a coupon to a client by reporting
the issue of coupon so that an operator can recognize it before issuing the
coupon when coupon issue conditions are satisfied.
SOLUTION: This device is provided with a CPU 11 as an issue report output
  control   means formed from an electronic **cash   register** 10, ROM 12 and
buzzer alarm reporting means 30 as an issue reporting means and formed for
reporting the issue of coupon so that the operator can recognize it before
issuing the coupon when the coupon issue conditions are satisfied. Besides,
as a coupon issue confirming means, an issue key 21 is provided for
reinforcing the confirmation of operator and further as a **next** commodity
registration inhibition control means, the CPU 11 and the ROM 12 are
provided for reinforcing the duty of operator. Thus, since the issue of
coupon is reported so as to be recognized by the operator, the operator can
clearly recognize the issue of coupon to occur sometimes in the normal
state of issuing no ticket.
INTL CLASS: **G07G-001/12 ; G07G-001/12 ; G07G-001/01**

20/7,K/9   (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
04889966   **Image available**
CASH   REGISTER
PUB. NO.:   07-182566 [JP 7182566 A]
PUBLISHED:.   July 21, 1995 (19950721)
INVENTOR(s):   ONO KATSUYUKI
APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP
               (Japan)
APPL. NO.:   05-327143 [JP 93327143]
FILED: December 24, 1993 (19931224)

ABSTRACT

PURPOSE: To eliminate an error such as forgetting output and to prevent the
generation of difference depending on an operator by correlating the output
condition and the output kind of a report and selecting a report output
processing.
CONSTITUTION: A **cash   register** 3 **controls** a table preparation part 1,
prepares a table relating with the output condition and the output kind of
the report and **successively** stores it in a memory 2. The table stored in
the memory 2 is utilized for report output processing executed by a circuit

consisting of the collating part 5 and the report output part 6 of a report output processing selection part 4. Namely, when conditions at the time of outputting the report such as a condition which can be decided from information obtained within the **cash register** such as a date, a day, time, etc., is coincident with the condition stored in the memory 2, the combination of the reports to be outputted can be decided. Thereby, the operator does not have to think about a condition at the time of outputting the report and manually output plural kinds of the necessary reports.
INTL CLASS: **G07G-001/12 ; G06F-017/60**

  20/7,K/11   (Item 4 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
00412946
SETTING **CONTROL** SYSTEM FOR ELECTRONIC **CASH   REGISTER**
PUB. NO.:   54-064946 [JP 54064946 A]
PUBLISHED: May 25, 1979 (19790525)
INVENTOR(s):   MORISAWA SHIGENORI
                OKAWA TAMOTSU
                AOKI REIJIRO
APPLICANT(s): OMRON TATEISI ELECTRONICS CO [000294] (A Japanese Company or
                Corporation), JP (Japan)
APPL. NO.:   52-132068 [JP 77132068]
FILED: November 01, 1977 (19771101)
                          ABSTRACT
PURPOSE: To aviod the double setting when the product department code is set to the product department code area, by addressing the code area through the control unit to read out the data which is compared **consecutively** with the supplied codes and inhibiting setting of the corresponding code when a coincidence is secured for the comparison result.
CONSTITUTION: The electronic **cash   register** memorizes the product register data given from keyboard 10 in ROM4 and RAM5 with every product department. To this RAM5, department area 501, transaction-based product register data area 502 and responsible person-based register data area 503 are provided. And when the product department code is set to area 501 through keyboard 10, the department code which is already set is read out via CPU3 to be compared with the department code supplied newly. Then the setting is inhibited for the department code supplied newly in case a coincidence is secured in the above comparison, thus, avoiding the double setting.
INTL CLASS: G06F-015/20; **G07G-001/00**

  22/26,TI/3   (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
014519569
WPI Acc No: 2002-340272/200238
   Centralized Cash Control **Equipment (CCCE) port connecting apparatus
   for Electronic Gaming Device (EGD) which automatically chooses which
   system can communicate with the port**

  22/26,TI/6   (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
012444092
WPI Acc No: 1999-250200/199921

Sales data processor for POS - has change paying out machine which pays out cash corresponding to card data

22/26,TI/8   (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
007714338
WPI Acc No: 1988-348270/198849
   Stock and cash control system e.g. for in-flight sales - has duty-free sales mode provided by depression of two alphabetic keys on key pad which is couple to integral display

22/3,AB,K/1   (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
015156288
WPI Acc No: 2003-216815/200321
XRPX Acc No: N03-173395
   Cash management system for POS system, compares identification information related to financial transactions, with prestored information, based on which delivery of cash to customer is determined
Patent Assignee: NEC CORP (NIDE)
Number of Countries: 001 **Number** of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
JP 2003044669 A   20030214 JP 2001226401   A   20010726 200321 B
Priority Applications (No Type Date): JP 2001226401 A 20010726
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
JP 2003044669 A   17 G06F-017/60
Abstract (Basic): JP 2003044669 A
Abstract (Basic):
        NOVELTY - A CPU (3) compares identification information related to
    financial transactions, received from a terminal equipment (2) with
    prestored information. The delivery of cash to the customer is
    determined based on the comparison result.
        DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the
    following:
        (1) cash delivery method; and
        (2) **cash control** program.
        USE - For point-of-sales (POS) system. Also for internet banking.
        ADVANTAGE - The cash is delivered efficiently and quickly, without
    communicating with the customer personally.
        DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of the
    cash management system. (Drawing includes non-English language text).
        terminal equipment (2)
        CPU (3)
        pp; 17 DwgNo 1/5
International Patent Class (Main): **G06F-017/60**

22/3,AB,K/2   (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
015153217
WPI Acc No: 2003-213744/200321
XRPX Acc No: N03-170478

Capital cash control **device releases cash after counting amount of money and after verifying authentication of operator**
Patent Assignee: OKI ELECTRIC IND CO LTD (OKID)
Number of Countries: 001 **Number** of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
JP 2002133514 A   20020510 JP 2000327983   A   20001027 200321 B
Priority Applications (No Type Date): JP 2000327983 A 20001027
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
JP 2002133514 A   4 G07F-019/00
Abstract (Basic): JP 2002133514 A
Abstract (Basic):
        NOVELTY - The capital **cash** **control** device counts amount of
    money and releases the cash, after the cash release requesting operator
    receives personal authentication by the capital **cash** **controller** and
    after the confirmation of operator's authentication.
        USE - Capital **cash** **control** device.
        ADVANTAGE - The security is enhanced and **number** of persons of
    operators in the **cash** **controller** is reduced.
        DESCRIPTION OF DRAWING(S) - The figure shows a flowchart
    illustrating the operation of the capital **cash** **control** device.
    (Drawing includes non-English language text).
        pp; 4 DwgNo 1/1
International Patent Class (Additional): **G06F-017/60** ...

22/3,AB,K/4   **(Item 4 from file: 350)**
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
013887205
WPI Acc No: 2001-371418/200139
XRPX Acc No: N01-271499
    Cash control **system in commercial store, has cash management information recording unit to record cash management information containing amount of each type of bill**
Patent Assignee: KANDA CORP KK (AIKA)
Number of Countries: 001 **Number** of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
JP 2001109959 A   20010420 JP 99285647   A   19991006 200139 B
Priority Applications (No Type Date): JP 99285647 A 19991006
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
JP 2001109959 A   8 G07G-001/12
Abstract (Basic): JP 2001109959 A
Abstract (Basic):
        NOVELTY - A cash management information recording unit records cash
    management information containing amount of each type of bill. Based on
    cash management information, a determining unit determines amount of
    specific bill used in operating store.
        USE - For cash transactions in commercial stores.
        ADVANTAGE - Since the collected money is separated according to the
    value of each note, change is always available at stores. Since amount
    of each note is stored, the transaction of money can be referred easily
    for each day.
        DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of

cash control system. (Drawing includes non-English language text).
pp; 8 DwgNo 1/5
International Patent Class (Main): **G07G-001/12**
International Patent Class (Additional): **G06F-017/60 ...**

22/3,AB,K/5   (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
012466245
WPI Acc No: 1999-272353/199923
XRPX Acc No: N99-203918
   Goods selling data processor e.g. cash management - has 10,0000 bill cash
   box common to two electronic cash registers, which cannot be released or
   removed until predetermined operation is performed, by inputting number
   of bills to 10,000 bill cash box
Patent Assignee: TOKYO ELECTRIC CO LTD (TODK)
Number of Countries: 001 **Number** of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
JP 11086136   A   19990330 JP 97242554   A   19970908 199923 B
Priority Applications (No Type Date): JP 97242554 A 19970908
Patent Details:
Patent No Kind Lan Pg   Main IPC   Filing Notes
JP 11086136   A   9 G07G-001/12
Abstract (Basic): JP 11086136 A
       NOVELTY - A 10,0000 bill cash box (50) common to two electronic
   cash registers (10a,10b), cannot be released or removed until a
   predetermined operation is performed, by inputting **number** of bills into
   each electronic cash register, to feed the **number** of bills into the
   10,000 bill cash box. DETAILED DESCRIPTION - The data processor has two
   electronic cash registers (10a,10b) with respective drawers (30) for
   storing cash.
       USE - For e.g. cash management, cash collection control.
       ADVANTAGE - Ensures safety in **cash   control** since 10,000 bill
   cash box needs predetermined operation to be released. Reduces size and
   cost of cash drawer. Simplifies structure of drawer. Increases work
   efficiency of processor. Ensures safe and correct cash collection.
   Increases service efficiency. DESCRIPTION OF DRAWING(S) - The figure
   shows the side sectional view of a goods selling data processor.
   (10a,10b) Electronic cash registers; (30) Drawers; (50) 10,0000 bill
   cash box.
       Dwg.2/7
International Patent Class (Main): **G07G-001/12**

22/3,AB,K/7   (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
008859890
WPI Acc No: 1991-363914/199150
XRPX Acc No: N91-278746
   Cash   control **and replenishment of automatic teller machine - has**
   currency storage unit and replenishing storage unit for refilling first
   unit w.r.t. data stored in memory
Patent Assignee: TOSHIBA KK (TOKE)
Inventor: SANO M
Number of Countries: 002 **Number** of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
GB 2244838	A	19911211	GB 9111795	A	19910531	199150	B
JP 8320966	A	19961203	JP 90139579	A	19900531	199707	
			JP 96167179	A	19900531		
JP 8320967	A	19961203	JP 90139579	A	19900531	199707	
			JP 96167180	A	19900531		
JP 10074279	A	19980317	JP 90139579	A	19900531	199821	
			JP 97201475	A	19900531		
JP 3204928	B2	20010904	JP 90139579	A	19900531	200152	
			JP 97201475	A	19900531		

Priority Applications (No Type Date): JP 90139579 A 19900531; JP 96167179 A
   19900531; JP 96167180 A 19900531; JP 97201475 A 19900531

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 8320966	A		16	G07F-019/00	Div ex application JP 90139579
JP 8320967	A		16	G07F-019/00	Div ex application JP 90139579
JP 10074279	A		18	G07D-009/00	Div ex application JP 90139579
JP 3204928	B2		18	G07D-009/00	Div ex application JP 90139579
					Previous Publ. patent JP 10074279

Abstract (Basic): GB 2244838 A

   Each teller machine is provided with currency storing units (604,
605) for storing different value paper currencies and a replenishing
currency storing unit (606). The teller machine controller receives
currency data relating to the amount of the paper currencies stored in
the currency storing units and stores the data in a memory. The teller
machine controller automatically decides whether the currency storing
units should be automatically replenished from the replenishing storing
unit based on the currency data.

   The condition of each storing unit can be displayed on a panel of
the controller, and card accessed by a service operator, the operator
then performing auxiliary manual currency recovery and replenishment if
necessary. Currency deposited by a user into an inlet (25) passes to
validatory unit (608), and if valid along apath (610c) to an
appropriate unit. If the deposited currency is invalid or abnormal it
is returned to the outlet (25) via a wheel (613). If a user wishes to
withdraw currency it is removed one note at a time from the appropriate
storing unit and passed to the outlet after collection in stack form (P).

   ADVANTAGE - Increased currency use efficiency and enhances service
for clients.

   Dwg.6/15

International Patent Class (Additional): **G06F-017/60 ...**

22/3,AB,K/9   (Item 1 from file: 347)

DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
07474292
SYSTEM FOR MANAGING AUTOMATIC TELLER MACHINE INTEGRALLY
PUB. NO.:   2002-342810 [JP 2002342810 A]
PUBLISHED: November 29, 2002 (20021129)
INVENTOR(s): MATSUOKA MITSUGI
APPLICANT(s): NEC CORP
APPL. NO.:   2001-142366 [JP 20011142366]
FILED: May 11, 2001 (20010511)
                              ABSTRACT
PROBLEM TO BE SOLVED: To eliminate a human mistake.

SOLUTION: This management system is provided with a communication network 50, a safe 10, a cash charger 20, a **cash controller** 30, and an automatic teller machine 40. The safe 10 holds proper information proper thereto. The cash charger 20 reads the proper information of the safe 10 to generate cash information as to a cash to be charged to the safe 10, charges the cash into the safe 10, and transmits the proper information and the cash information via the communication network 50. The **cash controller** 30 controls the cash information corresponding to the proper information, in response to reception of the proper information and the cash information. The automatic teller machine 40 sets the filled safe 10, reads the proper information of the set safe 10, and receives and controls the cash information from the **cash controller** 30 via the communication network 50, based on the proper information.
COPYRIGHT: (C)2003,JPO
INTL CLASS: G07D-009/00; **G06F-017/60**
COPYRIGHT: (C)2003,JPO

  22/3,AB,K/10   (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.
07429386
PASSIVE OPERATION SUPPORTING METHOD
PUB. NO.:   2002-297896 [JP 2002297896 A]
PUBLISHED: October 11, 2002 (20021011)
INVENTOR(s): AZEYANAGI RINTARO
              YAMASHITA YASUHISA
APPLICANT(s): CHUO MITSUI TRUST & BANKING CO LTD
APPL. NO.:   2001-098699 [JP 20011098699]
FILED: March 30, 2001 (20010330)
                         ABSTRACT
PROBLEM TO BE SOLVED: To realize a portfolio construction method in a passive fund with a trade cost taken into account, and also realize an efficient cash management method.
SOLUTION: The tracking error of passive fund = [S{return rate of fund −return rate of bench mark}2]0.5 indicating the deviation of the passive fund from the bench mark can be expressed by a tracking error due to a deviation from the bench mark + trade cost. An optimization calculation program 18 calculates a portfolio holding ratio so as to minimize the tracking error. Also, the **cash control** program realizes an efficient **cash control** by utilizing futures.
COPYRIGHT: (C)2002,JPO
INTL CLASS: **G06F-017/60** ; G06F-017/18
COPYRIGHT: (C)2002,JPO

  22/3,AB,K/11   (Item 3 from file: 347)
DIALOG(R)File 347:JAPIO
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07428976
SERVER AND METHOD FOR PROVIDING INFORMATION
PUB. NO.:   2002-297486 [JP 2002297486 A]
PUBLISHED: October 11, 2002 (20021011)
INVENTOR(s): AKIYAMA KAZUYA
              ISHIDA MASAYOSHI
APPLICANT(s): SANYO ELECTRIC CO LTD
APPL. NO.:   2001-097167 [JP 20011097167]
FILED: March 29, 2001 (20010329)

ABSTRACT
PROBLEM TO BE SOLVED: To shorten the time that elapses before a Web page is
displayed.
SOLUTION: An information providing server 100 pre-acquires addresses of
contents desired to be acquired from a user through a registration receipt
part 140. A **cash control** part 160 accesses for acquiring contents to
addresses received at the receipt part 140 and stores the contents into a
cash data storage part 170. **The control part 160 acquires the contents in a
predetermined time interval with repetition to keep in the latest
situation.** When a user requests the contents, an information presenting
part 150 reads out the contents from the storage part 170 to present to a
user. The user can acquire desired contents from the server 100 without the
need for accessing to a server stored the contents.
INTL CLASS: G06F-013/00; G06F-012/00; **G06F-017/60** ; H04M-011/08

22/3,AB,K/13   (Item 5 from file: 347)
DIALOG(R)File 347:JAPIO
05151076
COUNTER FUND CONTROL SYSTEM
PUB. NO.:   08-106576 [JP 8106576 A]
PUBLISHED: April 23, 1996 (19960423)
INVENTOR(s):   MURAYAMA FUMIAKI
APPLICANT(s): GLORY LTD [420874] (A Japanese Company or Corporation), JP
               (Japan)
APPL. NO.:   06-244194 [JP 94244194]
FILED: October 07, 1994 (19941007)
                              ABSTRACT
PURPOSE: To provide a counter fund control system which is capable of
performing the efficient **cash control** within a shop by performing the
immediate control of the sales and the status monitoring of deficient and
and excessive operation fund and properly performing a sales prediction and
supplement/ collection.
CONSTITUTION: This system has plural registers 1 installed on counters,
cash processors 2 and 3 which are connected with these registers and
receive and deliver sales prices, a control computer 20 which is connected
with the registers by a communication means and controlling the cash
information for plural registers and a display part which is connected with
this control computer and displaying the quantity and amount of cash within
plural controlled registers. The system is provided with a control terminal
equipment 30 controlling/monitoring information by controlling the quantity
and amount within each register in real time and displaying the immediate
control of sales prices and excessive operation fund on the display part
INTL CLASS: G07G-001/12 ; G07G-001/12 ; G06F-017/60

22/3,AB/14   (Item 6 from file: 347)
DIALOG(R)File 347:JAPIO
04128863
AUTOMATIC CASH DISPENSER
PUB. NO.:   05-120563 [JP 5120563 A]
PUBLISHED: May 18, 1993 (19930518)
INVENTOR(s):   SAITO SATORU
APPLICANT(s): OMRON CORP [000294] (A Japanese Company or Corporation), JP
               (Japan)

APPL. NO.:   03-282991 [JP 91282991]
FILED: October 29, 1991 (19911029)
JOURNAL: Section: P, Section No. 1607, Vol. 17, No. 491, Pg. 36,
                September 06, 1993 (19930906)

ABSTRACT

PURPOSE: To automate settlement processing and accurately perform **cash control** by displaying settlement wait data on the display means of the automatic cash dispenser and performing the settlement processing of the settlement wait data when the ID code of a storage medium is read out and matches the ID code of the settlement wait data which is selected and inputted on the display means.

CONSTITUTION: When the ID code in the settlement wait data which is selected and inputted on the display 11 matches the ID code of the ID card shown in a card insertion slot 12 by an operator, the settlement processing is automatically performed according to the amount of money fed in feed slots 13a and 13b and the charge amount of money of the settlement wait data. Thus, the sale control and settlement processing of a POS system are automated to specify operators, settlement by settlement, cash processing is performed just sufficiently, and an illegal act by an employee can securely be prevented

22/3,AB/15   (Item 7 from file: 347)
DIALOG(R)File 347:JAPIO
03210997
POS TERMINAL EQUIPMENT
PUB. NO.:   02-186497 [JP 2186497 A]
PUBLISHED: July 20, 1990 (19900720)
INVENTOR(s):   MUTO JUN
APPLICANT(s):   KOUFU NIPPON DENKI KK [000000] (A Japanese Company or
                Corporation), JP (Japan)
APPL. NO.:   01-004817 [JP 894817]
FILED: January 13, 1989 (19890113)
JOURNAL: Section: P, Section No. 1115, Vol. 14, No. 468, Pg. 89,
                October 12, 1990 (19901012)

ABSTRACT

PURPOSE: To prevent the service life of a CRT from being lowered by burning by providing a sensor to detect the existence of an operator in the surface side of a console and a control part to execute the adjustment of CRT luminance according to the signal of the sensor in a POS terminal equipment to execute commodity control and **cash   control** at the time of selling.

CONSTITUTION: A POS terminal equipment 1 is composed of a CRT 2, sensor 3 and console 1a in a front surface side. When the operator exists in the front surface side of the console 1a, such a condition is detected by the sensor and a signal to show the existence of the operator is sent from a controller, which is not shown in a figure, provided in the equipment 1. Then, the luminance of the CRT 2 is held constant. Next, when the operator is separated from the console 1a, such a condition is detected by the sensor 3 and samely, the signal to show the absence of the operator is outputted from the controller. Then, the luminance of the CRT 2 is lowered to the prescribed luminance. Thus, the luminance is increased or decreased according to the presence and absence of the operator in front of the console 1a. Then, the CRT is prevented from being burned and energy consumption is reduced

22/3,AB/16   (Item 8 from file: 347)

COMMODITY SALES DATA PROCESSOR
PUB. NO.:   02-150999 [JP 2150999 A]
PUBLISHED: June 11, 1990 (19900611)
INVENTOR(s):   TSUJII TAKAO
APPLICANT(s):   TOKYO ELECTRIC CO LTD [000356] (A Japanese Company or
                Corporation), JP (Japan)
APPL. NO.:   63-304846 [JP 88304846]
FILED: December 01, 1988 (19881201)
JOURNAL: Section: P, Section No. 1098, Vol. 14, No. 400, Pg. 4, August
                29, 1990 (19900829)

ABSTRACT

PURPOSE: To surely attain an intra-drawer **cash   control** for each cashier
and a balance carried forward control to next accounting business by
cumulatively totalling errors generated in the accounting business
according to the cashier to the error totaling area in a cumulative
totalling table.
CONSTITUTION: A balance transfer key is provided at a keyboard 38, the
balance carried forward area is provided in the cashier control table in a
RAM, when the practically total amount of cash in a drawer 44 is inputted
by the operation of the balance transfer key, it is stored into the balance
carried forward area. Further according to a sign-off operation, data in
the balance carried forward area are held in a corresponding initial loan
area and a residual amount area as the balance carried forward. Further,
error areas and the error totaling tables are respectively provided in the
cashier control table and the cumulative totaling table, the difference of
the actual and logical cash total amounts in the drawer 44 is calculated,
stored into the corresponding error area, and the contents of the error
area are added to the corresponding error totaling area according to the
sign-off operation

 22/3,AB/17   (Item 9 from file: 347)
ELECTRONIC REGISTER
PUB. NO.:   58-207172 [JP 58207172 A]
PUBLISHED: December 02, 1983 (19831202)
INVENTOR(s):   TAKATSUDO HIROAKI
                HARUHARA KAZUYOSHI
APPLICANT(s):   CASIO COMPUT CO LTD [350750] (A Japanese Company or
                Corporation), JP (Japan)
APPL. NO.:   57-089771 [JP 8289771]
FILED: May 28, 1982 (19820528)
JOURNAL: Section: P, Section No. 261, Vol. 08, No. 58, Pg. 126, March
                16, 1984 (19840316)

ABSTRACT

PURPOSE: To perform the **cash   control** with drawers arranged for each
transaction with a registering process for each type of product or each
transaction, by providing plural drawers to an electronic register and at
the same time opening these drawers after reading out each drawer **number**
data.
CONSTITUTION: The storing case of an electronic register contains 4 drawers
1a-1d to store the cash and 4 drawers 1A-1D to store moneys other than cash

such as credit slips, checks, etc. Responsible persons A and E are assinged
to drawers 1a and 1A, and other responsible persons are assigned to other
drawers respectively. These responsible persons are stored in a responsible
person memory 9b. When a customer is registered, the amount of moneys is
processed with a transaction memory 9a corresponding to transaction keys as
well as the memory 9b corresponding to responsible person keys. Then the
drawer **number** data is read out to a drawer buffer A in response to the
transaction and the responsible person, and the decoded result of the
drawer **number** data is set to the buffer A. As a result, one of drawers
1a-1D is opened to carry out a registering process

22/3,AB/18   (Item 10 from file: 347)
DIALOG(R)File 347:JAPIO
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01143364
UNLOCKING CONTROLLER OF CASH DRAWER
PUB. NO.:   58-080764 [JP 58080764 A]
PUBLISHED: May 14, 1983 (19830514)
INVENTOR(s):   MIYAMOTO KUNIHIRA
APPLICANT(s):   SHARP CORP [000504] (A Japanese Company or Corporation), JP
                (Japan)
APPL. NO.:   56-180116 [JP 81180116]
FILED: November 09, 1981 (19811109)
JOURNAL: Section: P, Section No. 214, Vol. 07, No. 176, Pg. 140,
                August 04, 1983 (19830804)
                              ABSTRACT

PURPOSE: To ensure the strict **cash control** for an electronic cash
register having plural cash drawers which are provided relatively, by
avoiding such mistake that >=2 cash drawers are unclocked at one time due
to a program mistake or the external noises.
CONSTITUTION: When a master CPU11 gives an unlocking command to a certain
cash drawer, a code obtained by combining the logic states of at least 2
bits is used. A controller 12 decodes the code and gives a driving command
to the driving circuits 15a-15d which drive either one of the cash drawers
based on the above-mentioned code. Thus such mistake that >=2 cash drawers
are unlocked at one time can be avoided even though the signal showing an
unlocking command is added to >=2 bits due to a program mistake of the
CPU11 or the external noises

22/3,AB/19   (Item 11 from file: 347)
DIALOG(R)File 347:JAPIO
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01143363
ELECTRONIC CASH REGISTER
PUB. NO.:   58-080763 [JP 58080763 A]
PUBLISHED: May 14, 1983 (19830514)
INVENTOR(s):   NUNOYAMA SEIJI
APPLICANT(s):   MATSUSHITA ELECTRIC IND CO LTD [000582] (A Japanese Company
                or Corporation), JP (Japan)
APPL. NO.:   56-178860 [JP 81178860]
FILED: November 06, 1981 (19811106)
JOURNAL: Section: P, Section No. 214, Vol. 07, No. 176, Pg. 139,
                August 04, 1983 (19830804)
                              ABSTRACT

PURPOSE: To ensure the effective use of an electronic cash register, by
selecting and printing only the value that is particularly important for

the **cash** **control** among the data fed by the ten-key or in the contents
of results of calculations.
CONSTITUTION: A ten-key 1 feeds the single unit amount of each article. An
arithmetic circuit 6 delivers a positive mark to the amount of a function
key 2 which is a factor of the receipt of money and then a negative mark to
the amount of the key 2 which is a factor of the payment respectively. The
gate circuits 7 and 11 are opened to the data on the single unit amount of
the negative mark and closed for the data on the single unit amount of the
positive mark respectively. The output of the circuit 6 is printed at a
printing part 10 via the circuits 7 and 11

22/3,AB/20 **(Item 12 from file: 347)**
DIALOG(R)File 347:JAPIO
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00951669
DRAWER CONTROL SYSTEM IN EACH TIME ZONE OF ELECTRONIC REGISTER
PUB. NO.: 57-101969 [JP 57101969 A]
PUBLISHED: June 24, 1982 (19820624)
INVENTOR(s): KUMAGAI SHO
APPLICANT(s): CASIO COMPUT CO LTD [350750] (A Japanese Company or
Corporation), JP (Japan)
APPL. NO.: 55-179177 [JP 80179177]
FILED: December 17, 1980 (19801217)
JOURNAL: Section: P, Section No. 145, Vol. 06, No. 192, Pg. 67,
September 30, 1982 (19820930)

ABSTRACT

PURPOSE: To strictly execute a **cash** **control** in each time zone, by
storing and counting up sales data in each time zone, releasing a drawer
corresponding to each time zone when registration has ended, and comparing
data counted up in each time zone with cash in the drawer, which is used in
only its time zone.
CONSTITUTION: To a CPU5 of ECR, a clock circuit 6 for counting a present
time, an RAM7 for storing a sales data in each time zone, and a responsible
person's switch 8 are connected through an address bus AB and a data bus
DB. Also, to the CPU5, a drawer opening control part and plural drawer
parts 9 consisting of a buzzer, etc. are connected. When executing the
registration processing of the ECR of this constitution, in which time zone
the present time exists is detected by the CPU5, a drawer corresponding to
its time zone of a drawer part 9 is released by its detection output, and a
data stored and counted up in each time zone in the RAM7 is compared with
cash in its drawer by the CPU5, by which cash in each time zone is
controlled strictly

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File 348:EUROPEAN PATENTS 1978-2004/Jan W04
File 349:PCT FULLTEXT 1979-2002/UB=20040122,UT=20040115
Set     Items    Description
S1         34    CASH()CONTROL????
S2      79751    SAFE OR SAFES OR CASHBOX OR CASHBOXES OR CASH()REGISTER? ?
S3     887084    SEQUEN? OR CONSECUTIV? OR SUCCESSIV? OR SUCCESSION? OR SUC-
                 CEEDING OR NEXT OR SUBSEQUENT?
S4    1058924    FOLLOW???
S5     889186    NUMBER?? OR NUMERICR?
S6        701    CASH(5N)CONTROL????
S7      21405    IC=G06F-017/60 OR IC=G07G-001
S8     182686    SEQUENT?????
S9      16420    (S3 OR S8)()S5 OR S4(N)S5
S10       517    S7 AND S9
S11         5    S2(S)S9 AND S7
S12       202    S6 AND S7
S13         3    S9(S)S6 AND S7
S14         3    S13 NOT S11
S15         0    S1(S)S2(S)S9
S16         1    S6(S)S2(S)S9
S17      1377    S2 AND S7
S18       132    S9 AND S17
S19         1    S2/TI AND S18
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 11/3,AB,K/1   (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01409644
CUSTOMER MANAGEMENT SYSTEM

KUNDENVERWALTUNGSSYSTEM

SYSTEME DE GESTION DE LA CLIENTELE

PATENT ASSIGNEE:
   Toshiba Tec Kabushiki Kaisha, (1860484), 1-1, Kanda Nishiki-cho,
      Chiyoda-ku, Tokyo 101-8442, (JP), (Applicant designated States: all)
INVENTOR:
   MATSUSHITA, Naohiro, 7-11, Kamo, Mishima-shi, Shizuoka 411-0023, (JP)
LEGAL REPRESENTATIVE:
   Fuchs Mehler Weiss & Fritzsche (100495), Patentanwalte Sohnleinstrasse 8,
      65201 Wiesbaden, (DE)
PATENT (CC, No, Kind, Date): EP 1302918 A1   030416 (Basic)
                              WO 2002009053   020131
APPLICATION (CC, No, Date):   EP 2001950027 010718; WO 2001JP6251 010718
PRIORITY (CC, No, Date): JP 2000220842 000721
DESIGNATED STATES: DE; ES; FR; GB; PT
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: **G07G-001/00 ; G07G-001/12**
ABSTRACT EP 1302918 A1
   When a shopping container (13) put on a counter (12) is moved on this
   counter, a bar code scanner (14) reads a bar code from bar code holding
   means (15) mounted on the shopping container and outputs it to a cash
   register.
ABSTRACT WORD COUNT: 43
NOTE: Figure **number** on first page: 5
LANGUAGE (Publication,Procedural,Application): English; English; Japanese
FULLTEXT AVAILABILITY:
Available Text Language   Update   Word Count

```
         CLAIMS A   (English)  200316      808
         SPEC A     (English)  200316     4251
Total word count - document A          5059
Total word count - document B             0
Total word count - documents A + B     5059
```
...SPECIFICATION 44 in the data base 18. In accordance with a sales **number**
   which is a **consecutive** **number** to be issued each time registration and
   settlement are performed through the **cash** **register** 11, the sales file
   41 **seque**ntially stores the relevant customer identification **number**, date,
   time and...
...sales amount (total amount of money). In accordance with a details
   number, which is a **consecutive** **number** to be issued each time goods is
   registered, the details file 42 **seque**ntially stores a...

11/3,AB,K/3   (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00905254
AN INFORMATION MANAGEMENT SYSTEM
SYSTEME DE GESTION DE L'INFORMATION
Patent Applicant/Assignee:
  ORCHESTRIA LIMITED, 190 The Strand, London WC2R 1JN, GB, GB (Residence),
     GB (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
  MALCOLM Peter Bryan, Wortham, Lewdown, Okehampton, Devon EX20 4QJ, GB, GB
     (Residence), GB (Nationality), (Designated only for: US)
  NAPIER John Anthony, Little Stamborough, Roadwater, Watchet, Somerset
     TA23 ORW, GB, GB (Residence), GB (Nationality), (Designated only for:
     US)
  STICKLER Andrew Mark, Parsonage Farmhouse, Netherclay, Bishop's Hall,
     Taunton, Somerset TA1 5EE, GB, GB (Residence), GB (Nationality),
     (Designated only for: US)
  TAMBLIN Nathan John, 5 Oakfield Park, Wellington, Somerset TA21 8EX, GB,
     GB (Residence), GB (Nationality), (Designated only for: US)
  BEADLE Paul James Owen, Waterside House, Uplowman, Tiverton, Devon EX16
     7DW, GB, GB (Residence), GB (Nationality), (Designated only for: US)
  CROCKER Jason Paul, 4 Harvey Way, Ashill, Ilminster, Somerset TA19 9QD,
     GB, GB (Residence), GB (Nationality), (Designated only for: US)
Legal Representative:
  ABNETT Richard Charles (agent), Reddie & Grose, 16 Theobalds Road, London
     WC1X 8PL, GB,
Patent and Priority Information (Country, **Number**, Date):
  Patent: WO 200239331 A2 20020516 (WO 0239331)
  Application: WO 2001GB4979 20011108 (PCT/WO GB0104979)
  Priority Application: GB 200027280 20001108; US 2001923704 20010807
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
  CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
  KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO
  RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 70047

Main International Patent Class: **G06F-017/60**
Fulltext Availability: Claims
Claim
... the transmission to a third party for approval, renegotiate a higher
level of encryption to **safe** -guard the transmission if the credit card
number belongs to the company, or prevent the...Thus any strings of digits in
this range may be identified as possible credit card **numbers** .
   Following the extraction step S162 control passes to decision step S164
where.a routine end of...

   11/3,AB/4   **(Item 3 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
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00777022
**A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR AN E-COMMERCE BASED
  ARCHITECTURE**
**SYSTEME, PROCEDE ET ARTICLE DE PRODUCTION POUR UNE ARCHITECTURE BASEE SUR
  LE COMMERCE ELECTRONIQUE**
Patent Applicant/Assignee:
  AC PROPERTIES BV, Parkstraat 83, NL-2514 JG 'S Gravenhage, NL, NL
    (Residence), NL (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
  UNDERWOOD Roy A, 4436 Hearthmoor Court, Long Grove, IL 60047, US, US
    (Residence), US (Nationality), (Designated only for: US)
Legal Representative:
  HICKMAN Paul L (et al) (agent), Hickman Coleman & Hughes, LLP, P.O. Box
    52037, Palo Alto, CA 94303-0746, US,
Patent and Priority Information (Country, **Number,** Date):
  Patent: WO 200109794 A2-A3 20010208 (WO 0109794)
  Application: WO 2000US20704 20000728 (PCT/WO US0020704)
  Priority Application: US 99364734 19990730
Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES
  FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD
  MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US
  UZ VN YU ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 122424
English Abstract
  A system, method and article of manufacture provide a resources
  e-commerce technical architecture where context objects are shared among
  a plurality of components executed on a transaction server. Services are
  also accessed within the server without a need for knowledge of an
  application program interface of the server. Application consistency is
  maintained by referencing text phrases throug a short codes framework.
  Additionally, a graphical user interface is also generated for the
  resources e-commerce technical architecture.
  ...International Patent Class: **G06F-017/60**
Fulltext Availability: Detailed Description

   11/3,AB,K/5   **(Item 4 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT

00338679
AUTOMATIC PORTABLE ACCOUNT CONTROLLER FOR REMOTELY ARRANGING FOR PAYMENT OF DEBT TO A VENDOR
GESTIONNAIRE AUTOMATIQUE DE COMPTES PERMETTANT D'EFFECTUER A DISTANCE LE PAIEMENT D'UNE DETTE A UN VENDEUR
Patent Applicant/Assignee:
  BERNSTEIN Robert Jay,
Inventor(s):
  BERNSTEIN Robert Jay,
Patent and Priority Information (Country, **Number,** Date):
  Patent: WO 9621191 A1 19960711
  Application: WO 95US16655 19951221 (PCT/WO US9516655)
  Priority Application: US 95369749 19950106
Designated States: AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU
  IS JP KE KG KP KR KZ LK LR LT LU LV MD MG MN MW MX NO NZ PL PT RO RU SD
  SE SG SI SK TJ TM TT UA UG UZ VN KE LS MW SD SZ UG AT BE CH DE DK ES FR
  GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 6731

English Abstract
    An automatic account controller (110) for remotely arranging for payment
  of debt to a vendor. The controller includes a detector for activating
  the portable account controller upon detection of indicia of identity of
  an authorized user and an interactive display (102) for selecting a mode
  of payment to the vendor. The controller further includes a keyboard
  (104) for entering a payment amount, a transceiver (112), transcoder
  (114), and modem (116) for communicating with the vendor, and for
  executing the selected mode of payment to the vendor through the
  transceiver (112), transcoder (114), and modem (116) for communicating.
Main International Patent Class: **G06F-017/60**
Fulltext Availability: Detailed Description
Detailed Description
... 10 contains, embedded within, a **serial number** of the issuing bank as
well as a **sequence number** uniquely identifying the portable purchasing
device 10. The vendor's **cashbox** 50 first checks by reference to memory 56
 whether the issuing bank is in good...
...vendor then checks that the portable purchasing device is an appropriate
model compatible with the **cashbox** 50 and that the payment amount is of a
proper value...

   14/6/2   (Item 2 from file: 349)
00806382
**METHOD FOR AFFORDING A MARKET SPACE INTERFACE BETWEEN A PLURALITY OF
    MANUFACTURERS AND SERVICE PROVIDERS AND INSTALLATION MANAGEMENT VIA A
    MARKET SPACE INTERFACE**

   14/3,AB,K/1   (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
00806384
**NETWORK AND LIFE CYCLE ASSET MANAGEMENT IN AN E-COMMERCE ENVIRONMENT AND
    METHOD THEREOF**
**GESTION D'ACTIFS DURANT LE CYCLE DE VIE ET EN RESEAU DANS UN ENVIRONNEMENT
    DE COMMERCE ELECTRONIQUE ET PROCEDE ASSOCIE**
Patent Applicant/Assignee:

ACCENTURE LLP, 1661 Page Mill Road, Palo Alto, CA 94304, US, US
   (Residence), US (Nationality)
Inventor(s):
  MIKURAK Michael G, 108 Englewood Blvd., Hamilton, NJ 08610, US,
Legal Representative:
  HICKMAN Paul L (agent), Oppenheimer Wolff & Donnelly, LLP, 38th Floor,
   2029 Century Park East, Los Angeles, CA 90067-3024, US,
Patent and Priority Information (Country, **Number,** Date):
  Patent: WO 200139030 A2 20010531 (WO 0139030)
  Application: WO 2000US32324 20001122 (PCT/WO US0032324)
  Priority Application: US 99444775 19991122; US 99447621 19991122
Designated States: AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CU CZ DE DK
   DZ EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT
   LU LV MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR
   TT UA UG UZ VN YU ZW
   (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
   (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
   (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
   (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 171499
Main International Patent Class: **G06F-017/60**
Fulltext Availability: Detailed Description
Detailed Description
... Management component in this illustrative embodiment of the present
   invention may include: faster order to **cash** , duplication reduction,
   simplified processes, and manufacturing capacity utilization. 5
   Turning now to the Network Asset...s networks is a change in data flow.
   Data flow in today's network typically **follows** the client-server
   computing model. This is where many clients are all transferring data
   into...to the destination address field, a **number** of subfields such as
   operation code, source address, **sequence number** , and length code.
   44 The trailer is typically a technique for generating redundancy checks,
   such...as defined in the 2 5 32/64-word call record format described
   above.
   V) **Sequence Number** (3 bits) : This field represents the **number** of
   calls which have occurred on the same...
...**number** with the same Timepoint 1 (second) value. The first telephone
   call will have a **sequence number** set to 'O.' This value increases
   incrementally for each **success**ive call which originates on the...
...I is stored in the Timepoint I field of the 32-word call record; the
   Sequence Number is stored in the NCID **Sequence Number** field of the
   32-word call record. The 32-word call record also includes an...when an
   NCID must be created. In step 4202, the current switch will calculate a
   sequence number . The **sequence number** represents the **number** of
   calls which have occurred on the same port **number** with the same Timepoint
   I value. The first call has a **sequence number** value of '0,' after
   which the **sequence number** will increase incrementally for each
   successive call that originates on the same port **number** with the same
   Timepoint I value.
   After creating the **sequence number** in step 4202, the current switch
   proceeds to step 4204. In step 4204, the current...bits 0-7
   byte I 1, bits 0-7
   byte 12, bits 0-2 NCID **Sequence Number**
   byte 12, bits 3-7 Not Used

Table 44A
After transporting the call 3602 and...
...bits 0-7 byte I 1, bits 0-7 byte 12, bits 0-2 NCID **Sequence Number**
95 byte 12, bits 3-7 Not Used
Table 44B
After transporting the call 3602...the destination address field, a
number of subfields such as 122 operation code, source address, **sequence
number** , and length code. The trailer is typically a technique for
generating redundancy checks, such as...

14/3,AB,K/3 **(Item 3 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT
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00490977
MULTI-PROCESSING FINANCIAL TRANSACTION PROCESSING SYSTEM
SYSTEME MULTIPROCESSEUR DE TRAITEMENT DE TRANSACTIONS FINANICIERES
Patent Applicant/Assignee:
  N-GINE LLC,
Inventor(s):
  HINKLE William H,
Patent and Priority Information (Country, **Number,** Date):
  Patent: WO 9922329 A1 19990506
  Application: WO 98US23026 19981029 (PCT/WO US9823026)
  Priority Application: US 9763714 19971029
Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES
  FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD
  MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ
  VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH
  CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW
  ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 30245
English Abstract
   A financial transaction processing system in which much of the
  transaction processing logic is stored in a database, resulting in a
  relatively small executable file. Each transaction is described by a
  transaction data descriptor that includes a series of subtransaction data
  descriptions of actions that can be performed independently of one
  another, permitting parallel processsing on multiprocessor computers.
  Additionally, control columns in certain tables allow balance checking,
  thereby providing an indication of the integrity of the current data.
  Moreover, any changes to financial data can be traced for any period of
  time into the past, allowing full auditability.
Main International Patent Class: **G06F-017/60**
Fulltext Availability: Detailed Description
Detailed Description
... Licensee Default Definitions
  Primary Data consisting of
  Licensee Identifier
  Default Class
  Demand or Overdraft
  Accounting **Control Number**
  Accounting **Control Number** Description
   Cash Record Pointer in EA Table
  Other Details
  Audit Fields consisting of Processing Model I

```
S Add Date
Add  Sequence    Number
Add User Identifier
Change Date
Change  Sequence    Number
Change User Identifier
Delete Date
Delete  Sequence    Number
Delete User Identifier
Number of Modifications
Archive Status
Archive Date
Example.
Licensee Class Sub-Class...Disbursement Switch
Performance Measurement Switch
Licensee Wholesaler
Licensee Reseller
Account Settlement Switch
Other Details
+
System  Control  Data consisting of
Income  Cash
Principal Cash
Invested Income
Invested Principal
Total Units - Assets
Liabilities
Total Units - Liabilities
Capital Gain...Cap Adj In - Cost Basis
Audit Fields consisting of Processing Model I
Add Date
Add  Sequence    Number
Add User Identifier
Change Date
Change  Sequence    Number
Change User Identifier
Delete Date
Delete  Sequence    Number
Delete User Identifier
Number of Modifications
Archive Status
Archive Date
(&Cj Account Communication Links
Primary...
...23026
88
Other Details
Audit Fields consisting of Processing Model I
Add Date
5 Add  Sequence    Number
Add User Identifier
Change Date
Change  Sequence    Number
Change User Identifier
Delete Date
Delete  Sequence    Number
```

Delete User Identifier
Number of Modifications
Archiye Status
Is Archive Date
Example.
Licensee Account Communications...

 16/3,AB/1   (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00344642
**SYSTEMS AND METHODS FOR SECURE TRANSACTION MANAGEMENT AND ELECTRONIC RIGHTS
    PROTECTION**
**SYSTEMES ET PROCEDES DE GESTION SECURISEE DE TRANSACTIONS ET DE PROTECTION
    ELECTRONIQUE DES DROITS**
Patent Applicant/Assignee:
  ELECTRONIC PUBLISHING RESOURCES INC,
Inventor(s):
  GINTER Karl L,
  SHEAR Victor H,
  SPAHN Francis J,
  VAN WIE David M,
Patent and Priority Information (Country, **Number,** Date):
  Patent: WO 9627155 A2 19960906
  Application: WO 96US2303 19960213 (PCT/WO US9602303)
  Priority Application: US 95388107 19950213
Designated States: AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB
  GE HU IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL
  PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN KE LS MW SD SZ UG AZ BY
  KG KZ RU TJ TM AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE BF BJ CF
  CG CI CM GA GN ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 207972
English Abstract
   The present invention provides systems and methods for electronic
  commerce including secure transaction management and electronic rights
  protection. Electronic appliances such as computers employed in
  accordance with the present invention help to ensure that information is
  accessed and used only in authorized ways, and maintain the integrity,
  availability, and/or confidentiality of the information. Secure
  subsystems used with such electronic appliances provide a distributed
  virtual distribution environment (VDE) that may enforce a secure chain of
  handling and control, for example, to control and/or meter or otherwise
  monitor use of electronically stored or disseminated information. Such a
  virtual distribution environment may be used to protect rights of various
  participants in electronic commerce and other electronic or
  electronic-facilitated transactions. Secure distributed and other
  operating system environments and architectures, employing, for example,
  secure semiconductor processing arrangements that may establish secure,
  protected environments at each node. These techniques may be used to
  support an end-to-end electronic information distribution capability that
  may be used, for example, utilizing the "electronic highway".
Fulltext Availability: Detailed Description

 19/3,AB,K/1   (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00928428
  SAFE   **IDENTIFICATION   SYSTEM   IN   BANKING,   FINANCIAL   AND   ELECTRONIC
    INFORMATION SYSTEMS**
**SYSTEME   D'IDENTIFICATION   SECURISE POUR SYSTEMES D'OPERATIONS BANCAIRES ET
    FINANCIERES ET D'INFORMATIONS ELECTRONIQUES**
Patent Applicant/Inventor:
  GOLFETTO Clovis, Rua 2, Casa 3, Acampamento Tamboril, Vila Planalto,
    CEP-70800-000 Brasilia, DF, BR, BR (Residence), BR (Nationality)
Legal Representative:
  CARVALHO Ricardo (agent), Rua Paraiba, 1352, Conj. 711, Bairro
    Funcionarios, CEP-30130-140 Belo Horizonte, MG, BR,
Patent and Priority Information (Country, **Number,** Date):
  Patent: WO 200261640 A1 20020808 (WO 0261640)
  Application: WO 2002BR2 20020109 (PCT/WO BR0200002)
  Priority Application: BR 81120 U 20010129 (BR U)
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
  CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
  KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO
  RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 3930

English Abstract

  The present model of utility increases security and confidence for the
  user's identification in data processing, banking, financial and
  electronic commerce systems, internet, sales through telephone, credit
  and debt cards, magnetic cards through the utilization of an access
  name/**number** and variable password, with a single validity and which are
  defined based on rules pre established by the client. The access
  name/**number**s and password are not stored in a database, but calculated by
  the client, at the moment its use is deemed necessary. Therefore, if such
  data are discovered by others. With the user's **safe** identification,
  special use passwords can be created, for example, in a situation of
  holdups or "flash kidnappings".
Main International Patent Class: **G06F-017/60**
Fulltext Availability:
  Detailed Description
  Claims
Detailed Description
  The present patent refers to an...
...methods of concealment and camouflage are used by system managers in
  order to guarantee the **safe** guard of the information. Likewise, the
  client has the obligation to memorize and keep an...besides enabling him
  to change these formulas whenever he likes.
  Since this system allows a **safe** identification of the user, passwords
  can be created for special occasions such as "flash kidnappings...
...can do his shopping, always entering the **number** and the password. To
  increase security, the **sequential number** of the operation can be added,
since in the present system there are three extra...which all the passwords
are variable (change at each access), besides being quick, simple and **safe** .
  The dynamic position password allows the increase of security in

electronic systems of authorization and...
...methods of concealment and camouflage are used by system managers in
order to guarantee the **safe** guard of the information. Likewise, the
client has the obligation to memorize and keep an...point of view, the
necessary security is the one that allows the client to feel **safe** , is
simple, fast and as easy as possible, requiring from the client, less
effort to...
Claim
1@ A **safe** identification system in banking , financial and electronic
information systems, characterized by the use of changing...

Totem: A fault-tolerant multicast group communication system
Moser, L E; Agarwal, D A; Melliar-Smith P M; Budhia, R K; Lingley-Papadopoulos, C A

ABSTRACT: The Totem system, developed at the University of California, Santa Barbara, provides reliable, totally ordered multicasting of messages. over local area networks and exploits the hardware broadcasts of such networks to achieve high performance. Total ordering of messages simplifies the programming of fault-tolerant distributed applications. If distributed operations are derived from the same messages in the same total order, consistency of replicated information is easier to maintain. Simplified programming results in fewer programming errors and increased reliability for the application. Totem is intended for complex applications in which both fault tolerance and real-time performance are critical. Such complex applications are typically built as asynchronous event-driven distributed systems. The types of applications that can benefit from Totem include: 1. air traffic control, 2. industrial automation, 3. transaction processing and 4. banking.

TEXT: Headnote: Delivering multicast messages, Totem invokes operations in the same total order throughout the distributed system. The result: consistency of replicated data and simplified programming of applications.

Many applications can benefit from distributed systems based on multiple computers interconnected by a communication network. Distributed systems use inexpensive high-performance computers and can be configured closely to the application. Information can be replicated on several processors to improve performance and to provide fault tolerance. However, programming distributed applications is difficult, particularly when replicated information must remain consistent as it is updated in the presence of faults. Since many messages may be required, recovery from faults may introduce delays, making real-time performance objectives difficult to achieve.

Ordered multicast group communication systems are a useful infrastructure on which complex distributed applications can be built. Isis [4], Horus [18], Trans/Total [12, 15], Transis [6], Amoeba [8], and Delta-4 [17] are examples of such systems. The Totem system, developed at the University of California, Santa Barbara, provides reliable, totally ordered multicasting of messages over local-area networks (LANs) and exploits the hardware broadcasts of such networks to achieve high performance (see the sidebar "Why Totem?"). Total ordering of messages simplifies the programming of fault-tolerant distributed applications. If distributed operations are derived from the same messages in the same total order, consistency of replicated information is easier to maintain. Simplified programming results in fewer programming errors and increased reliability for the application.

Totem is intended for complex applications in which both fault tolerance and real-time performance are critical. Such complex applications are typically built as asynchronous event-driven distributed systems. The types of applications that can benefit from Totem's totally ordered message delivery service include many systems most important to our society, such as air traffic control, industrial automation, transaction processing, banking, stock market trading, intelligent highways, medical monitoring, and replicated database systems.

The characteristics that make Totem suitable for complex applications, particularly soft real-time applications, include:
 High throughput and low predictable latency;

 Rapid detection of, and recovery from, faults;

 Systemwide total ordering of messages, even for systems in which the network can partition and remerge, and for systems in which process groups can intersect; and

 Scalability to larger systems based on multiple LANs, interconnected by gateways, within the same geographical area.

With Totem, correctness of message ordering and configuration changes are ensured, even in the presence of multiple faults, and excellent performance is achieved.

Totem Services

The Totem system provides reliable totally ordered multicasting of messages to processes within process groups over a single LAN or over multiple LANs interconnected by gateways. Totem provides this delivery service in the presence of various types of communication and processor faults, including message loss, network partitioning, and processor crash, as well as omission and timing faults, but not completely arbitrary faults.

(Chart Omitted)

The structure of the Totem system as a hierarchy of protocols is shown in Figure 1. With reference to this hierarchy, we say that a message is received from the next lower layer of the hierarchy and is delivered to the next higher layer. When messages are received, they may not be in the correct order and, thus, may need to be reordered before being delivered to the next higher layer.

The bottom layer of the Totem system hierarchy is a best-effort multicast service, which typically uses the user datagram protocol (UDP) to exploit the high-performance hardware broadcasts of LANs. The single-ring protocol converts the best-effort multicasts into the service of reliable totally ordered delivery of messages on a single LAN while providing fault detection, recovery, and configuration-change services. The multiple-ring protocol uses the single-ring protocol and provides global total ordering of messages, as well as network topology maintenance services. The multiple-ring protocol, using information from the process group interface above it, forwards messages through the gateways to the LANs on which they are required. The process group interface delivers messages to the application processes in the appropriate process groups and provides process group membership services. The Totem system can also operate with

the process group interface directly on top of the single-ring protocol.

The Totem system provides two reliable totally ordered message delivery services, as requested by the originator of the message, called agreed and safe:

Agreed delivery guarantees that, when a processor delivers a message, it has already delivered all prior messages originated by processors in its current configuration and timestamped within the duration of that configuration.

Safe delivery further guarantees that before a processor delivers a message, it has determined that every other processor in its current configuration has received the message. Safe delivery is useful, for example, in transaction processing systems where a transaction must be committed by all of the processors or none of them.

Both of these services deliver messages in a single systemwide total order (linear sequence) that respects Lamport's causal order [10]. A processor may not need to deliver all of the messages, and, in the presence of faults, it may not be able to deliver all of them. When a processor fails or the network partitions, it may be impossible to determine which messages were delivered in which order by the processor before it failed, or whether messages were delivered by processors in other components of the partitioned network. Delivery of messages in a consistent systemwide total order is not easy when faults can occur.

(Table Omitted)

Extended virtual synchrony [14] ensures that the agreed- and safe-delivery guarantees are honored within every configuration, even if faulty processors are repaired or if a partitioned network remerges (see the sidebar, "Virtual Synchrony and Extended Virtual Synchrony"). When a fault occurs, a transitional configuration with a reduced membership is introduced, all members of which can honor the delivery guarantees. If the network partitions, processors in different components of the partitioned network may deliver different messages, but they never deliver the same messages in different orders. For many applications, this is a very important property.

Consider, for example, a commercial enterprise in which purchases received over the Internet before the close of business in New York are handled by the New York office and afterward by the San Francisco office. If the system were to partition at the critical moment (without extended virtual synchrony), it is possible that in New York the close of business message is ordered before the purchase message, while in San Francisco it is ordered after the purchase message. Both offices would then regard the other office as responsible for the purchase.

Interestingly, extended virtual synchrony can be guaranteed only if messages are born-ordered, meaning that the relative order of any two messages is determined directly from the messages, as broadcast by their sources. The Totem system uses bornordered messages, but some other multicast group communication systems do not.

The Totem Single-Ring Protocol

The Totem single-ring protocol [1, 3, 13] provides reliable totally ordered delivery of messages using a logical token-passing ring superimposed on a LAN, such as an Ethernet. The token circulates around the ring as a point-to-point message, with a token retransmission mechanism to guard against token loss. Only the processor holding the token can broadcast a message. The token, shown in Figure 2, provides total ordering of messages, rapid detection of faults, and effective flow control.

Message Ordering

In the Totem single-ring protocol, a sequence number field in the token, called seq, provides a single sequence of message sequence numbers for all messages broadcast on the ring, and thus a total order on messages. When a processor broadcasts a new message, it increments the seq field of the token and gives the message that sequence number. Other processors recognize missing messages by detecting gaps in the sequence of message sequence numbers, and request retransmissions by inserting the sequence numbers of the missing messages into the retransmission request list of the token. If a processor has received a message and all of its predecessors, as indicated by the message sequence numbers, it can deliver the message as an agreed message.

The all-received-upto field, or aru, of the token enables a processor to determine, after a full token rotation, a sequence number so that all processors on the ring have received all messages with lower sequence numbers. A processor can deliver a message as a safe message if the sequence number of the message is less than or equal to this sequence number. When a processor delivers a message as safe, it can reclaim the buffer space used by the message because it will never need to retransmit the message.

One might think that the continuously circulating token would result in increased overhead and reduced performance. The performance of other ordered multicast protocols is limited by input buffer overflow under high loads, causing message loss and retransmission. In Totem, the token provides accurate information on the number of messages transmitted during the previous token rotation. Using this information, Totem's flow-control mechanism limits transmissions to ensure that input buffers seldom overflow, allowing Totem to operate at higher throughput than other protocols.

(Chart Omitted)

The token also provides information about the aggregate message backlog of the processors on the ring, allowing a fairer allocation of bandwidth to processors than simpler schemes, such as the fiber distributed data interface (FDDI) . The Totem flow control mechanism provides excellent protection against fluctuations in processor loading but is vulnerable to competition for the input buffers from unanticipated network traffic on the LAN. Under high loads, Totem incurs relatively little variation in the latency to message delivery, an important factor for real-time applications.

Local Configuration Services

The Totem single-ring ordering protocol is integrated with a membership protocol that provides a member ship or configuration service for a single LAN, including addition of new and recovered processors and deletion of faulty processors. Faulty processors are detected by timeouts. New or restarted processors are detected by the appearance of messages on the LAN

from processors that are not members of the current ring. Like Transis [6], Totem handles network partitioning and remerging of components of a partitioned network.

The Totem single-ring membership protocol ensures:

 Consensus. Every member of a configuration agrees on the membership of that configuration.

 Termination. Every processor installs some configuration with an agreed membership within a bounded time unless it fails within that time.

Subject to these consensus and termination requirements, the membership protocol aims to form as large a membership as possible.
The well-known Fischer, Lynch, and Paterson impossibility result [7] demonstrates that, in a completely asynchronous system, it is impossible for processors to reach consensus in the presence of even a single crash failure. Chandra and Toueg [5] have shown, however, that consensus is possible in an asynchronous system subject to faults-if an unreliable failure detector is provided. We employ this strategy. Totem's failure detector uses timeouts and may exclude a slow processor from the membership, even though it has not actually failed.

The Totem single-ring membership protocol achieves consensus in bounded time, even if further faults occur, by reducing the membership until consensus is reached and by using timeouts that bound the time spent in any state of the membership protocol. The protocol can terminate in a singleton membership; however, with an appropriate choice of timeouts and with judicious use of randomization, the probability of a singleton membership is very small.

(Chart Omitted)

(Chart Omitted)

After reaching consensus on the membership, the membership protocol constructs a new ring on which the ordering protocol can resume operation, generates a new token, and recovers messages not yet received when the fault occurred. To install a new regular configuration, the protocol delivers two Configuration Change messages, rather than the one message that might have been expected. The first Configuration Change message introduces a transitional configuration of reduced size that excludes the faulty or inaccessible processors. Delivery of this message indicates that the agreed and safe delivery guarantees now apply only to the smaller transitional configuration. Within the transitional configuration, the remaining messages of the old configuration are delivered. After these messages are delivered, the second Configuration Change message is delivered, introducing the new regular configuration.

The Totem Multiple-Ring Protocol

The Totem multiple-ring protocol [1, 2, 13] operates over multiple LANs interconnected by gateways. Imposed on each LAN is a logical token-passing ring on which the single-ring protocol operates. The multiple-ring protocol provides essentially the same services-with the same properties-as the single-ring protocol. In particular, the message-ordering service provides agreed and safe delivery, and the topology maintenance service provides

consensus and termination for changes in the topology.
Message Ordering

To achieve a global total order of messages over all rings, the Totem multiple-ring protocol uses Lamport timestampsl and delivers messages in timestamp order. Messages with the same timestamp are delivered in the order of their source ring identifiers. Delivery of messages in timestamp order guarantees global consistency of message ordering. However, before a processor can deliver a message in timestamp order, it must know it will never subsequently receive a message with a lower timestamp.

Messages are generated with increasing timestamps and sequence numbers on each individual ring. The gateways forward messages in sequence number order from one ring to the next, as shown in Figure 3. When a gateway broadcasts a forwarded message, it gives the message a new sequence number for the next ring so the message can be reliably delivered on that ring. The timestamp of the message, however, remains unchanged. The single-ring sequence numbers (which contain no gaps), together with forwarding of messages in sequence number order, ensure that there are no missing messages.

For each ring from which it might receive a message, a processor maintains a recv_msgs list of messages originated on that ring and received from the single-ring protocol, as shown in Figure 4. A processor can deliver a message as an agreed message, and remove it from the recu_msgs list, if the message has the lowest timestamp of all messages in the recv_msgs lists and if none of the recv_msgs lists is empty. Because messages from the same source ring are forwarded in the order of their sequence numbers-also the order of their timestamps-a processor then knows it will never receive a message with a lower timestamp from that ring.

The gateways periodically broadcast messages, called Guarantee Vector messages, for the rings to which they are attached. The Guarantee Vector messages ensure that a processor can continue to deliver messages as agreed messages, even if, for some ring, no processor on that ring has recently originated a message. The Guarantee Vector messages also report which messages have been received on a ring from each of the other rings and, thus, allow a processor to determine which messages can be delivered as safe messages.

Network Topology Maintenance

In the Totem multiple-ring protocol, each gateway maintains a data structure, called topology, listing the rings within its connected component and the gateways that interconnect them. The topology of the network may be completely arbitrary. Since the gateways have knowledge of the network topology, they can adapt the message routing strategy to the current topology. A processor that is not a gateway needs to know only the rings from which it can expect to receive messages, rather than the full topology of the network.

If messages are originated on a ring of which a processor is unaware, it will not wait for such messages and may prematurely deliver other messages with higher timestamps. Similarly, if a ring becomes inaccessible and the processor is not informed, it will wait for a message from that ring, and message ordering will stop.

Processor faults and network partitioning are detected by the single-ring protocol, which generates a Configuration Change message to report the change in the local ring. Each gateway on the ring analyzes the Configuration Change message to determine its effect on the topology. The multiple-ring protocol then generates and broadcasts a Topology Change message reflecting the change. In particular, if a gateway finds that a ring has become inaccessible, the gateway removes the ring from its topology and notifies the other processors and gateways using a Topology Change message. This removal of the ring ends the need to wait for messages from that ring and allows messages from other rings to be ordered. Similarly, a Configuration Change message and its consequent Topology Change message can report if a ring is being added to the topology.

A topology change must have the same effect for each of the processors and gateways that were previously able to, and can still, communicate with each other. Although the processors and gateways may learn of a topology change at different physical times, they must still agree on a common logical time for the topology change and also on the set of messages delivered before the topology change. To accomplish this, Configuration Change and Topology Change messages are timestamped and delivered in timestamp order along with the regular messages.

The Totem Process Group Interface

An application running on top of Totem (and also on top of other group communication systems) is structured as a collection of process groups. Each process group is a set of processes cooperating to perform a particular task of the application. A process can be a member of several intersecting process groups, and a process group can span several rings, as shown in Figure 5. Each message is addressed to one or more process groups and is delivered to the processes that are members of those process groups. The Totem process group interface [11] provides the services of sending and receiving messages addressed to process groups and of creating, joining, and leaving process groups. For each application process, the interface establishes a socket through which the process communicates with Totem and through which the process can poll to determine whether messages are pending.

(Chart Omitted)

As the process group interface passes messages from the application processes down to the multiplering protocol, it fragments large messages and combines small messages into larger messages (packets) of a convenient size for transmission. On receiving messages from the multiple-ring protocol, the process group interface reassembles the messages and enqueues them on the sockets of the processes that are members of the groups to which the messages are addressed. Because the process group interface receives messages in the correct order, it need not be concerned with message ordering.

On each processor, the process group interface maintains the current membership of any process group of which at least one process on that processor is a member. When a process joins or leaves a group, this fact is disseminated throughout the network to all members of the group by the process group membership protocol.

Maintaining the consistency of message ordering when a process can be a

member of several intersecting process groups, or when a process communicates with other processes outside its group, is an interesting problem. Ordering messages independently within each process group can lead to inconsistencies. Consider three processes, p, q, and r, all of which are members of two process groups, G and H. Process p multicasts message m sub 1 to group G. On receiving m sub 1 , q multicasts message m sub 2 to group H. Clearly, m sub 1 causally precedes m sub 2 but, if messages are ordered only within groups, m sub 2 might be delivered to process r before m sub 1 . The only effective method known to us for ensuring consistency in the presence of multiple intersecting process groups is to impose a single global total order on all messages for all process groups in the system-the strategy adopted by Totem.

Performance

The Totem system has been implemented in the C programming language on Sun Microsystems IPCs running SunOS 4.1 and on Sun SPARCstation 20s running Solaris 2.4 over 10-Mbit/s and 100-Mbit/s Ethernet. It uses the Ethernet hardware broadcast capabilities and standard Unix facilities, particularly Unix UDP sockets, to broadcast messages and to transfer the token. The implementation has been ported to several other types of machines.

Single Ring

We have measured the throughput (number of messages an individual processor delivers into the total order per second) of the Totem single-ring protocol on our network of eight Sun SPARCstation 20s running Solaris 2.4 over a 100-Mbit/s Ethernet. Each processor was ready to broadcast at all times and the extra load on the processors and on the Ethernet was minimal. The flow-control parameters were adjusted to maximize throughput.

(Graph Omitted)

As Figure 6 shows, the highest throughput results from packing small messages into larger messages (packets) within the application process. For small messages, the primary determinant of throughput is the cost of packing, rather than the cost of transmission and ordering. For the highest throughput, the processors are saturated and no cycles are left for the application. Real-world applications must operate with substantially fewer messages per second than are shown in Figure 6.
Detection of a processor crash requires at most 50 milliseconds, and recovery after detection typically requires less than 20 milliseconds for this eightprocessor network. Further faults during recovery may lengthen this time, but it remains bounded.

For real-time applications, the latency from origination to delivery of a message is also important. To investigate the tail of the latency distribution, we developed an analytic model [16]. The graph at the left of Figure 7 shows the probability density function for the latency to agreed delivery with approximately 1,000 Poisson arrivals per second on a ring of eight processors with 1,000-byte messages. The graph at the right of Figure 7 shows the corresponding probability density function for a deterministic arrival process. For a modern LAN, under normal conditions and with good flow control, the probability of message loss is very small, typically less than $r = 0.00001$.

As is evident, for low message-loss rates, the deterministic arrival

process has a lower probability of incurring a longer latency to agreed delivery than the Poisson arrival process. The Poisson arrival process allows messages to bunch together, slowing the token rotation and resulting in higher latencies for all messages in the bunch. If the nature of the system is such that the generation of messages tends to be Poisson rather than deterministic, it is necessary to operate at lower message generation rates to avoid high latencies.

We are currently extending the probability density function analysis to include processor faults and multiple rings. These probability density functions provide the predictability needed for real-time applications (see the sidebar, "What Is Real Time?").

Multiple Rings

In general, token-based protocols scale poorly to large systems, but Totem can operate on multiple rings with a filtering mechanism at each gateway. Messages addressed to a process group are forwarded along one (or more) spanning trees, but only if needed to reach members of the process group. Thus, Totem exploits process-group locality and scales logarithmically, rather than linearly, to larger networks.

(Graph Omitted)

(Graph Omitted)

(Chart Omitted)
To investigate the performance of the multiplering protocol with more processors than we currently have in our laboratory, we developed an analytic model. For the four topologies shown in Figure 8, each containing 40 processors, we considered the probability that a message must be forwarded through the network. In this analysis, P sub 1 represents the probability that a message originated in one half of the network must be forwarded to the other half; P sub 2 represents the probability that, within one half of the network, a message must be forwarded from one quarter to the other.

The graphs in Figure 9 show the mean latencies to agreed and safe delivery for various traffic levels (total number of messages generated in the network per second) and for each of the four topologies with P sub 1 = 0.1 and P sub 2 = 0.2. With these low probabilities, process-group locality is good, and relatively few messages must be forwarded through the gateways. The multiple-ring topologies show substantially lower latencies than a single ring with the same number of processors at the same traffic level and are capable of sustaining substantially higher traffic levels with reasonable latencies. Even when P sub 1 = 1.0 and P sub 2 = 1.0, the multiple-ring topologies exhibit improved performance over a single ring, particularly for safe messages.
Conclusions

The Totem system enables fault-tolerant applications in distributed systems to maintain the consistency of replicated information by providing reliable totally ordered multicasting of messages. A hierarchy of protocols delivers messages to processes within process groups over a single LAN or over multiple LANs interconnected by gateways. The message ordering strategy of Totem employs timestamps to define a consistent total order on messages systemwide and sequence numbers to ensure reliable delivery of messages.

Hardware broadcasts, multiple rings, filtering of messages, and process group locality enable Totem to achieve high throughput and low predictable latency.

The Totem system homepage is at http://www. beta.ece.ucsb.edu/totem.html.

Sidebar: Virtual Synchrony and Extended Virtual Synchrony

In group communication systems, the delivery and subsequent processing of multicast messages can alter related or replicated data items, maintained by several processes. If the messages are received In different orders by different group members, the data at those processes might become inconsistent. Moreover, if processes fail, or if they leave or join the process groups dynamically, different processes can have different views of the process group membership, which again might result in inconsistent data.

The virtual synchrony model [41, introduced for Isis, orders group membership changes along with the regular messages. It ensures that failures do not result in incomplete delivery of multicast messages or holes in the causal delivery order. It also ensures that, if two processes proceed together from one view of the group membership to the next, they deliver the same messages in the first view. Virtual synchrony does not constrain the behavior of faulty or isolated processes. Faulty processes if they recover, are regarded as new processes. In a primary partition strategy, such as that of Isis, if the system partitions, one component of the partition (the primary componentE continues to operate. Processes in other component continues to operate. Processes in other components are deemed faulty.

Processors and processes do, however, recover after failure with stable storage intact, and networks do remerge after partitioning. In different components of a partitioned network, processes can operate concurrently without being able to communicate with each other. Thus, the message delivery guarantees provided by a process can refer only to its local component, which suffices for messages delivered only in that component. However, while the network is becoming partitioned or while a process fails, some messages might be delivered in more than one component of the network.

The extended virtual synchrony model [141, introduced for Totem, extends the model of virtual synchrony to systems in which processes can fail and recover and in which the network can partition and remerge. Even in such systems, the message delivery guarantees are strictly honored. The same messages may be delivered in two or more components of a partitioned

network, but the message ordering is consistent in all of them. Moreover, some processes may not have received a message, and so the other processes are told which processes are known to have received it. Extended virtual synchrony does not solve all the problems of recovery in a fault-tolerant distributed system, but it does avoid inconsistencies that make recovery unnecessarily difficult.

What Is Real Time?

Traditionally, the design of real-time systems has been dominated by the synchronous hard real-time paradigm, which is appropriate for embedded real-time systems [9]. All operations in the system are performed according to a preplanned schedule based on the worst-case workload and worst-case processor performance. The classical hard realtime paradigm aims to provide absolute guarantees that every real-time deadline will be met.

In the real world, however, there are no absolute guarantees; there is a probability, small but non-zero, that all of the processors in the system will fail. The best we can do is to determine the probability that a deadline will be missed and ensure that the probability is small enough. For civilian airline flight control, a probability of 10-16 of missing a deadline is small enough, based on an acceptable failure rate of 10-10 per hour and 106 deadlines per hour. Other applications allow higher rates of missing deadlines.

Complex real-time systems contain many sources of variability. There are variations in processor performance resulting from caches, cycle stealing, and interrupt handling; there are variations in the execution of programs caused by special cases and by heuristic algorithms; there are variations resulting from fault recovery and there are variations resulting from fault recovery; and there are variations in the workload. A preplanned worst-case design for a complex real-time system is necessarily a conservative design with adverse effects on performance. Such systems are, therefore, seldom built as preplanned synchronous systems. Instead, they are built as event-driven asynchronous soft real-time systems that provide a high probability, rather than an absolute guarantee, that real-time deadlines will be met.

Both hard and soft real-time paradigms are necessarily probabilistic. For soft real-time systems, we estimate the probability that the system will generate the required results before the deadlines. For hard real-time systems, we estimate the probability that the system will generate the intended results. These probabilities are not easily calculated; more research is required in this area.

In simple real-time systems, only one or a few operations are pending at any time, and processing and communication latencies are important factors in ensuring that real-time deadlines are met. In complex real-time systems, many operations may be pending, and the time these operations spend in queues is an important factor in determining whether real-time deadlines are met. The lengths of the queues and the time the operations spend in them are determined by the throughput.

Consequently, complex real-time systems are better served by mechanisms designed for high throughput and predictable latency, rather than by mechanisms that try to achieve the lowest possible latency at the price of decreased throughput.

Footnote: The Lamport timestamp of a message is obtained from a local Lamport clock. If a processor receives a message whose timestamp exceeds the value of its clock, the processor advances its clock to a value greater than the timestamp.

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Projects between the sheets. (Microsoft Excel as a database manager)
  (includes related article on using Excel macro capabilities)
Elam, Sandra
MacUser, v4, n7, p234(8)
July, 1988
TEXT:
      Projects Between the Sheets
      Why are so many projects overdue and overbudget? All too often it's
because project requirements are out of control, which inevitably causes
schedule delays and cost overruns. Using Excel, there's a simple way to get
a grip on any project -- no matter how large or complex. The technique
involves using a project-requirements database. With this database, you can
avoid wasting time and money on your next project, easily track new or
changed requirements, and clearly show through testing that your product
meets all specifications.
      Excel lets you automate the requirement-tracking process so you know
exactly what is required on each project at any moment (often an impossible
task when tracking is done manually). In addition, managers can
automatically generate test plans that contain each project requirement.
Because each line in the test plan is cross-referenced to the database,
requirements never slip through the cracks.
      Recently I created a 900-line project-requirements database in Excel
to track every requirement for a $5 million engineering project. The
database was easy to set up and update and proved invaluable to the project
manager during the design and testing phases of the project. You can use
this kind of database to manage any business task involving a project that
must be completed. Whether you're designing a car, building a subway
system, or writing a procedure to test a new hair dryer, the need for a
comprehensive set of requirements -- neatly categorized, easily sorted --
always exists. But you need a database manager to help you organize these
requirements.
      EXCEL: A DATABASE MANAGER?
      Although Excel is widely known as the power spreadsheet, it's
actually a spreadsheet, charting program, and database manager rolled into
one. Excel's database manager is often overlooked, however -- although it's
extremely capable. Because a project-requirements database could be set up
in any database application, why use Excel? Well, Excel's database manager
is as powerful as many other standalone applications and it's easy to
learn. It's espeically cost-effective if you already have the program for
its spreadsheeting capabilities.
      Like many database managers, Excel can sort a database by an
unlimited number of key categoreis and can easily find, extract, or delete
all records meeting criteria you sepcify. Entering database information is
as simple as entering spreadhseet data -- just click on a cell, then start
typing. And Excel gives you a lot of control over the format of your
database, so reports printed on a LaserWriter look great.
      If you already use Excel as a spreadsheet, you'll find learning the
database commands a snap. Unlike some database applications that require
you to enter data for each record on a separate form, in Excel you enter
all data on one worksheet. Instead of displaying just one record at a time,
Excel displays all records together in a table, which makes it easy to
scroll through a database, updating or comparing records. The only drawback
to this kind of display arises when you have more than about ten fields in
your database (if you're using a standard Mac display). Because youcan't

set up an entry form to show all the fields on one screen, you have to scroll back and forth across the columns (which can take up several Mac screen widths, depending on how wide each column is). The constant scrolling is somewhat annoying, but if your budget permits, you can allevaiate this problem by using a large montior.

Before I discuss how to set up a project-requirements database, I'll take a quick look at Excel's menus and the specific commands involved in database management.

WHAT'S ON THE MENUS?

The menu bar has eight headings: File, Edit, Formula, Format, Data, Options, Macro, and Window. The database commands are in the Data menu, but you should explore all the menus if you're not already familiar with them. Many of the bgasic spreadsheet commands are especially useful when you're using Excel as a database.

You use the Macro menu to write miniprograms called macros to automate repetitive tasks that you'd normally perform manually. You create a macro by having the MAc record a sequence of actions (choosing a cell or command, scrolling, opening a file, and so on) you perform. Once the Mac has recorded the sequence, you just invoke the macro and that sequence of actions is recreated. You can also finetune a macro (or create it from scratch) using Excel's macro programming language.

You donht need to know how to write a macro to set up a database, although a good macro written for your particular application can automate many database functions (such as sorting, finding, extracting, or deleting records). The sidebar "An Extra Pair of Hands" goes into more detail on the hows and whys of macros.

The UNDO command on the Edit menu is different from what you'd expect. Excel cannot undo some database commands, so be careful when sorting or deleting records. Because of UNDO'S limited capability, it's a good idea to save your database under a new name before you do anything drastic to it (more on this later).

In creating a database, you'll be doing a lot of data manipulation, so for maximum efficiency you shold learn several keyboard commands by heart: Command-X for CUT, Command-C for COPY, and Command-V for PASTE. When cutting, copying, or pasting rows in a database, you must remeber to select the entire row (by clicking on the row number along the left margin), not just a portion of it. This is because all information in one row is part of the same record and each record must stay intact or your database will be scrambled.

Most of the commands in the Formula menu are used to create spreadsheets, not databases, but there are two you'll use often: SELECT LAST CELL and SHOW ACTIVE CELL. SELECT LAST CELL lets you jump the last cell in your database, saving time and frustration. Imagine the agony of scrolling to the bottom of a 1000-line database!

Excel defines the "last cell" in your database as the intersection of the last row and last column that contains a cell with data or formatting information -- not as the last cell into which you've entered ata. If you ever get an Out of Memory box when you think you shouldn't, choose the SELECT LAST CELL command. If Excel jumps away beyond the last cell containing data, the problem is that a bunch of empty cells have been added to the database, eating up all available memory.

To alleviate this problem, select and cut all empty cells between the last cell containing data and Excel's last cell. Then, save, close, and reopen the database. Excel will delete those empty cells from the database, significantly reducing the amount of memory consumed. Your database will save and load faster.

Another command that saves scrolling time is SHOW ACTIVE CELL. Let's

say that you clock on a cell in row 50 of your database but you need to refer to row 10 for some information. Scroll up to row 10 (without clicking on another cell), find the information you need, then choose SHOW ACTIVE CELL. Excel immediately jumps back to the last cell you clicked on (the one in row 50, in this case).

The Format menu contains five commands that determine how Excel interprets and displays the data you enter: NUMBER, ALIGNMENT, STYLE, BORDER, and COLUMN WIDTH. Most of these are self-explanatory after a little exploration. In the number dialog box, you will usually choose the General format. You have to be careful when entering data such as serial numbers or part numbers because Excel sometimes automatically reformats numbers. If you enter a part number such as 3-2-88, for instance, Excel will think it's a date and will display it as 2-Mar-88. To avoid this, always add a "dummy character" such as a pound sign (#) or a space character in front of all data that Excel might think is a numeral or date. If you enter the part number as #3-2-88, Excel will treat it as text and will not try to reformat it.

WHERE THE ACTION IS

The specific commands you'll need to turn your data into a database are on the Data menu: FIND, EXTRACT, DELETE, SET DATABASE, SET CRITERIA, SORT, and SERIES. First, you have to tell Excel what part of your worksheet to consider as a database -- you may, for example, use parts of the same worksheet as a spreadsheet, as a scratch pad, and as a holding place for numbers used to generate graphics as well as for your database. You simply select the database portion, including column headings, then select SET DATABASE. After you have done this, you can use the other database commands on this menu. Before you can find, extract, or delete records, you must first specify and criteria that will single out the data records you're interested in. To do this, you set up a CRITERIA RANGE above the first line or below the last line of your database. You copy your column headings into this range and type criteria underneath the proper column headings. The criteria can be text or numeric values, and you can specify an exact value to be matched, a range of acceptable values (using =, <, >, <=, >=, or <> operators), or computed values based on Excel formulas. You can also use two wildcard characters when searching for text: A question mark (?) can be used to accept any single character in that position, and an asterisk (*) can represent an indefinite number of characters. Select the entire CRITERIA RANGE, then choose the SET CRITERIA command. Then the FIND, EXTRACT, or DELETE command will act on all records meeting the criteria you specified.

The SORT command leads to a dialog box in which you specify key categories for Excel to use when sorting. The SERIES command leads to a dialog box in which you can easily generate a series of numbers (more on these commands later).

WITHOUT EXCEL: RUNNING AMOK

Now that you have a general idea of Excel's database capability, let's create a sample project-requirements database. For our hypothetical project, let's say a company is designing a new hair dryer. The project manager knows the dryer must meet all requirements contained in the contract and pass a rigorous test procedure derived from these requirements. But without a project-requirements database to track each requirements, he has no idea whether each requirement is being implemented as it should be.

The mechanical engineer correctly designs an on/off switch for the hair dryer with three wattage settings -- 300, 650, and 12000 watts -- but the electrical engineer purchases on 800-watt heater instead of a 1200-watt heater. Because requirements were unclear, the company wasted time and

money designing the wrong product. Each requirement that slipped through the cracks cost thousands of dollars and months of delay. The company could have avoided confusion, cost everruns, and wasted time by setting up a project-requirements database. Here's how to do it.

WITH EXCEL: RUNNING SMOOTHLY

The first step is to collect the sources for every project requirement. If there's a contract for this project, it probably lists the formal project requirements in a statement of work. Informal requirements can come from anywhere -- meetings with your boss, letters from customers, or a stack of Post-it notes. In some cases, you'll make up project requirements youself.

Next, open a new Excel worksheet and start entering data. For the sample database shown in the figures, I set up six columns, or fields, namely: Sequence Number, System, Test Method, Source of Requirement Keyword, and Requirement. Depending on the project, your database may have more fields (for equipment model number, serial number quantity, or manufacturer, for instance).

Let's say that the only source of requirements for this particular project is a contract consisting of ten sentences. You enter each sentence from the contract in the Requirement column. The first sentence in the contract says: "The new hair dryer to be designed must be no longer than 4 inches overall, must have a maximum width of 4 inches, and must be a maximum of 2.5 inches tall; additionally, the handle of the dryer must fold against the rest of the unit for compact storage."

Sentences such as this often contain more than one requirement, tucking them away behind semicolons. Strip away redundant words. Don't feel obliged to type each sentence in exactly as it appears in the contract. You are trying to glean the essence of the requirement. If a sentence is too long to fit into one cell (which can hold a maximum of 108 characters), it usually contains more than one requirement. Break it into pieces and put each requirement on a separate line in the database. Then you can track each requirement individually.

In the Sequence Number column, you assign a unique number to each requirement. For short databases, you can type sequence numbers in manually, but for databases of more than, say, 20 lines, you should use the SERIES command on the Data menu to insert this sequence -- it's fast and easy to use. Select the Sequence Number column, choose SERIES, then click on the OK button. Excel automatically inserts a sequence of numbers in the selected column.

Because a different sequence number is used for each requirement, it uniquely identifies that requirement. Sequence numbers are crucial in tracking requirements. They also allow you to cross-reference your contract (or other sources) with your database and the database with your test plan. If you delete a requirement from your database, renumber all sequence numbers from that point on (using the SERIES command); otherwise, gaps in the number sequence will make it seem as if some requirements have been accidentally lost.

In the source of requirement column, record where each requirement came from. Knowing the source sentence (or paragraph, conversation, memo, and so on) for each requirement lets you document that each requirement is, in fact, required. When the inevitable happens and you're accused of inventing or distorting requirements, this column is your defense.

The System column identifies each major part of the project (in this case, each system in the hair dryer). Each requirement will eventually be sorted into one of these systems. If you're writing a review of a Macintosh software product instead of designing a hair dryer, this column might contain topic headings. You might have six topic headings: Lead, Features,

Bugs, Recommendations, Summary, and Rating. You would assign each idea (that is, requirement) to one of these headings. Just keep in mind that this column must divide your project into major parts, sections, or systems.

In the Keyword column, you choose a word that instantly categorizes the requirement and helps sort the database into a meaningful order. For the sample database, the keyword is a piece of equipment -- the part of the hair dryer to which the requirement refers. When designing a product that will eventually be tested, the keyword should always be a piece of equipment. On the other hand, if you are writing a Macintosh product review, the Keyword column should contain a keyword that summarizes the main idea in each requirement. Because keywords will be sorted into alphabetical order, be sure you use any abbreviations consistently.

Obviously, you only need a Test Method column if you're designing something that will be tested. Nearly all the projects go through a test phase, although it's not always immediately obvious. For the sample database, you categorize each hair dryer requirement according to how it should be tested: by measuring, observing, or operating. If you're writing a software review, Test Method might include editing, proofreading, or having someone elsse read through the article.

SORTING THINGS OUT

Before sorting, save the database under a new name. As mentioned earlier, Excel cannot undo a sort, so if you make a mistake sorting your original database and you haven't saved it under a new name, you're in trouble! Once you've saved the database under a new name, though, any sorting mistakes will not affect your original database--to which you can easily return, if necessary.

The most useful way to organize the sample database is to sort first by System, then by Test Method, and finally by Keyword. To do this, you first select your entire database, choose SET DATA-BASE, then select the part of your data-base you want to sort -- everything except the column headings. You never want to select the column headings when sorting because they'll get jumbled up with the rest of your database (because sorting is done alphabetically).

Next, choose the SORT command on the Data menu to bring up the Sort dialog box. Here you tell Excel which categories, or keys, to use in sorting. To first sort by System, type the address of any cell within the System column in the 1st Key box. (Although B4 is shown, you can type any cell address in the range from B4 to B15.) You can also specify a "nested" sort within a sort. To subsort by Test Method and then Keyword, type in appropriate cell addresses as the 2nd and 3rd Keys.

This sort separates the project by system (mechanical from electrical in the hair dryer example), pulls together all requirements that will be verified by the same test method, and finally pulls together all requirements that involve the same piece of equipment. After a few seconds, Excel reshuffles each requirement into the correct order.

You can always regain your original database order by sorting the Sequence Number column in ascending order -- but only if each requirement has a correct sequence number. If you've forgotten to assign sequence numbers to some requirement and try this sort, they'll be shuffled to the bottom of the database.

The sample database required only three keys to sort it completely, but in your database you might need to subsort by more than the three keys allowed in the Sort dialog. You can coax Excel to sort by an unlimited number of keys by sorting in stages. If you want to sort by six keys, for example, you first sort by the three least important keys, then sort a second time by the three most important keys. (Before starting experimental

sorting, though, remember to save your database under a new name to avoid possible disaster!).

Because all sorting is done aphabetically or numerically, you must be consistent in entering data. Correct all typos and standardize all terminology and abbreviations before you sort.

TESTING ... 1... 2 ...3

By automatically generating a test plan from the sample database and successfully running it, you can verify that all the requirements have been met. Because the database is sorted by System, Test Method, and Keyword, it's already in the correct sequence for testing. After saving the sorted database under a new name, you can begin transforming it into a test plan. Separate the requirements into tables (according to system and test method to be used) and number and title each table. Next, format the test plan -- this involves hiding unnecessary columns by reducing those column widths to zero. You can easily re-expose a hidden column at any time by selecting the columns on both sides of it and then resetting the width in the Column Widths dialog box in the Format menu.

As you format the test plan, you may want to add new columns that are useful in a test procedure, such as Test Results and Comments columns. Finally, save and print the test plan. This printout can be used as an actual test procedure or can serve as a high-level test plan from which more detailed procedures can be written.

TIPS ON PRINTING AND ASSEMBLING

Printing and assembling an Excel database can be trickly if it stretches across more than two Macintosh screen widths. Although you have a lot of control over formatting, you really have to be creative to cram all your data onto two pages.

You definitely need a LaserWriter for printing -- not only because it prints small or compressed fonts legibly but also because it can shrink your database in increments of 1% until the printed output fits on two pages. You can assemble two pages facing each other in book style, but if your database stretches across more than two pages, there's no easy way to assemble the hard-copy output properly. An ImageWriter can only shrink printed output by 50%, so it can't be used for shrinking most database output because a 50% reduction makes most text unreadable. (You can work around this limitation to some extent by increasing the font size and column widths a little and then reducing them by 50%.)

THIS JUST IN

To be truly useful, a project-requirements database should be updated each time a project's requirements change. First, archive the old revision of the database, and then save it under a new name with a new revision number. The most important things to remember when updating your database is that you must keep track of all changes. An easy way to do this is by formatting all new or changed records in bold italics and compiling a summary page at the front of your database listing every change that was made. These techniques allow for easy tracking of changes between subsequent versions of the database.

If you add any new lines to the database, remember to renumber your Sequence Number column with a new sequential series of numbers (using the SERIES command). Doing this will assign new sequence numbers to some of the requirements each time the database is updated. If you want to keep the same sequence numbers throughout the life of a project, you'll have to manually number new requirements and leave blanks for deleted requirements. This kind of numbering scheme can lead to problems, though, as the following example illustrates.

In the hair-dryer database, suppose you add two new requirements to the middle of the database (between requirements 5 and 6, say). The

sequence numbers of all requirements after them will then be incorrect. You could correct them by using the SERIES command to assign a new sequence number to each requirement or you could manually number the new requirements 5.1 and 5.2. Then, however, you could no longer tell how many requirements you had by looking at the number sequence, and you wouldn't know that some requirements were missing if they were accidentally deleted. You'll have to decide which is more important to you: keeping your sequence numbers consecutive or keeping them consistent.

Using a project-requirements database in Excel, you can ease your burden as a project manager by reducing schedule delays and cost overruns -- whether your project is manufacturing a product, writing a document, planning a wedding, or running for president. It takes some effort to plan ahead, but once you see how much you've saved -- in time, money, and headaches -- you'll agree it was worth the effort.

An Extra Pair of Hands

Excel macros let you automate repetitive tasks needed to create and maintain databases. A macro replaces a sequence of keystrokes and mouseclicks with a single command. Like a player piano roll, a macro stores information that -- when executed -- guides a pair of invisible hands across the keyboard.

Creating macros in Excel is easy, once you know the basic steps. Excel helps you write macros with the RECORD command, located in the Macro menu. When you play back a RECORDed sequence, Excel acts just as if you had typed in that sequence of keystrokes. You canl also edit a RECORDed macro to make it more efficient or more broadly applicable.

I c reated three macros to simplify maintenance of a project requirements database. One makes sorting the database easier, another takes care of renumbering project requirements after you've added new ones, and the last simplifies adding new items to the database.

First, however, you should do a couple of things to your database to prepare it for use with macros. For starters, it helps to shorten the column headings so that more columns fit in a single screen width, so you can better see what you're doing. You should also change the header labels so that all of them are unique and fit in a single row (because Excel doesn't recognize two-line database headers). I also put my criteria range at the top of the worksheet, since putting it at the bottom can cause problems as the database range expands.

To build a macro, create a new macro sheet using the NEW command on the File menu. To record the Sort macro, I entered the label Sort into the macro sheet, and used DEFINE NAME to identify that cell as the starting point for the macro called Sort. I also selected Command in the dialog box, and entered the letter 's' into the shortcut box. The Sort macro can then be started by using RUN from the Macro menu (and selecting Sort from the subsequent dialog box) or by simply executing an Option-command-S.

Next, I chose SET RECORDER from the MAcro menu, and activated my database worksheet. After choosing START RECORDER from the Macro menu, all keystrokes and mouseclikcs are recorded onto the Macro sheet (until STOP RECORDER is selected).

I recorded the following steps; First, I selected everything in the database range except the column labels. Next, I chose SORT from the Data menu and did a sort. Finally, I stopped the recorder.

Often, you can use a recorded macro "as is" but, in this case, I wanted a more generic macro. I reactivated the macro sheet and clicked on the cell containing the =SELECT... formula.

I changed the formula to read as follows: =SELECT(INDEX(!Database,2,0): INDEX(!Database, ROWS(!Database),0)).

This statement makes use of a few of Excel's more powerful

non-recordable functions.

The INDEX function selects the particular row, column, or cell specified by the arguments that follow in parentheses. In English, the macro statement reads: "Select the area from the second row and first column of the area called 'Database' to the last row and first column of the same 'Database' area." The name Database was automatically defined when you used the SET DATABASE command. Using this generic name lets the macro adjust automatically, as the database range expands and contracts. Similarly, the "!" in this syntax refers to the active worksheet, regardless of its name.

I made the sort statement generic by changing it to =SORT?(). This syntax prompts the user with the standard sort dialog box. Finally, I had the sort macro invoke a SAVE AS (to make sure that may old data won't accidentally get "clobbered") by manually inserting the following statement: =SAVE.A- S?("Enter a new file name.").

The ReNumber macro chooses the area from the first cell of the second row to the first cell of the last row of the database using the INDEX function. Having done this, it enters a 1 into the active (top) cell in this column, and uses the SERIES command from the Data menu to assign sequential numbers down the column. The macro also restores the active cell or range to whatever it was before you invoked teh macro. It does this by creating a temporary name (BookMark) associated wtih the range that's active when the macro is first invoked. The command FORMULA.GOTO(!BookMark) restores it as the active range when the macro is done renumbering.

The AddRow macro adds a new row to the database, based on the location of the active cell just before the macro is invoked. The macro has to be smart enough to know whether you're adding to the middle or to the end of the database. Adding a row to the middle is easy, but, if you want to add to the bottom of the database, you need to reset the database range. An IF command checks which of two subroutines (AddBottom or DoInsert)is appropriate. In either case, the AddRow macro formats the new row as bold and italic.

Finally, it executes the ReNumber macro as a command within the AddRow macro.